

# Infrastructure Plan Sheets

# Downtown West

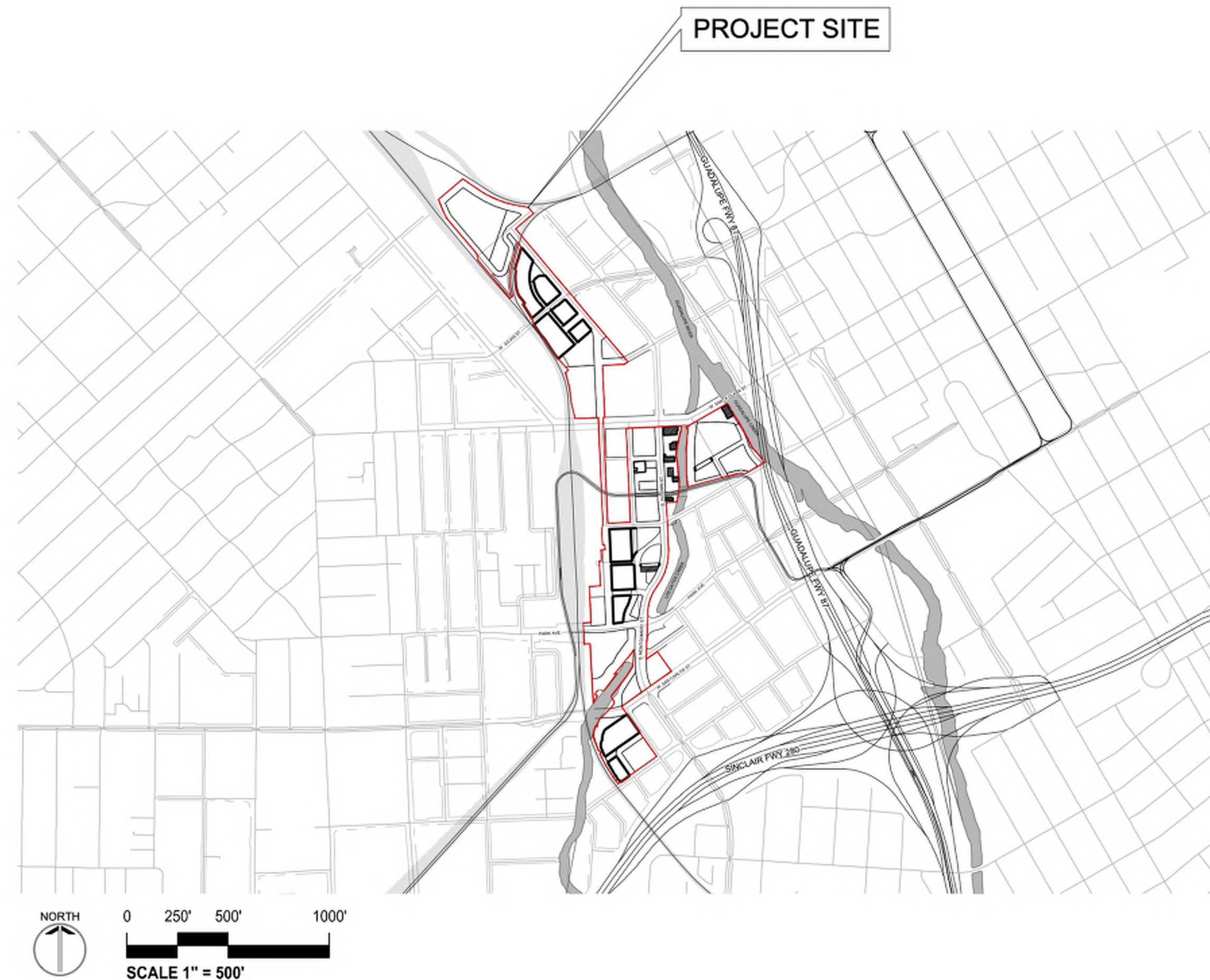
San Jose, California

## GENERAL NOTES

1. THESE INFRASTRUCTURE PLAN SHEETS ARE CONCEPTUAL IN NATURE AND DESCRIBE ANTICIPATED FLOODPLAINS, GRADING DESIGN, UTILITY DESIGN, AND STORMWATER IMPROVEMENTS. FINAL PLANS WILL BE SUBMITTED AND EVALUATED AS PART OF 100% TRACT IMPROVEMENT PLANS.
2. EXISTING TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS IS BASED ON SURVEY PERFORMED BY HHM ENGINEERS UNDER THE DIRECTION OF TRACY GIORGETTI, LS FROM JANUARY 2020 TO JULY 2020. BASIS OF BEARINGS: THE CALCULATED BEARING OF SOUTH 02° 43' 35" WEST TAKEN BETWEEN THE RECORD POSITION OF GPS CONTROL POINT 2218 AND GPS CONTROL POINT 1049, AS SHOWN ON THAT CERTAIN RECORD OF SURVEY FILED FOR RECORD ON JUNE 21, 1996, IN BOOK 677 OF MAPS AT PAGE 54, OFFICIAL RECORDS OF SANTA CLARA COUNTY WAS TAKEN AS THE BASIS FOR ALL BEARINGS SHOWN HEREON. BENCHMARK: SCVWD BM365 = 83.71', NORTH AMERICAN VERTICAL DATUM OF 1988, DATE ADJUSTED MARCH 14, 2017, VALLEY TRANSPORTATION AGENCY'S ALUMINUM DISK (VTA-225) ON TOP AND AT MID CONCRETE SIDEWALK; 3.1 FEET SOUTH FROM FACE OF CURB; 12 FEET WEST FROM THE SOUTHEAST CORNER OF NEW JULIAN STREET BRIDGE OVER GUADALUPE RIVER, BETWEEN HIGHWAY 87 AND AUTUMN STREET, CITY OF SAN JOSE. GRADES ENCOUNTERED ON-SITE MAY VARY FROM THOSE SHOWN. CONTRACTOR SHALL REVIEW THE PLANS AND SPECIFICATIONS AND CONDUCT FIELD INVESTIGATIONS TO VERIFY EXISTING CONDITIONS AT THE PROJECT SITE.
3. THIS TOPOGRAPHIC SURVEY IS NOT MEANT TO BE A FULL CATALOG OF EXISTING CONDITIONS. INFORMATION REGARDING EXISTING SURFACE OR SUBSURFACE IMPROVEMENTS AND UTILITIES SHOWN ON THESE PLANS REFLECTS INCOMPLETE AVAILABLE INFORMATION AS OF THE DATE OF DESIGN. CONTRACTOR SHALL CONDUCT FIELD INVESTIGATIONS AS REQUIRED TO VERIFY THE LOCATION AND ELEVATION OF EXISTING SUBSURFACE IMPROVEMENTS AND UTILITIES (WHETHER SHOWN ON THESE PLANS OR NOT) PRIOR TO THE COMMENCEMENT OF WORK.
4. THE DESIGN SHOWN IN THESE DRAWINGS IS BASED UPON STANDARDS AS PROVIDED IN THE DOWNTOWN WEST IMPROVEMENT STANDARDS.

## UNAUTHORIZED CHANGE AND USE

1. SHERWOOD DESIGN ENGINEERS, LTD. SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, OR PROCEDURES UTILIZED BY THE CONTRACTOR, FOR THE SAFETY OF THE PUBLIC OR CONTRACTOR'S EMPLOYEES, OR FOR THE FAILURE OF THE CONTRACTOR TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
2. THE CIVIL DESIGN ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS. ANY MODIFICATIONS TO THIS DOCUMENT, WITHOUT THE WRITTEN PERMISSION OF SHERWOOD DESIGN ENGINEERS, LTD., SHALL RENDER THE PLANS INVALID AND UNUSABLE.
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## INFRASTRUCTURE PLANS

## DOWNTOWN WEST

## San Jose, California

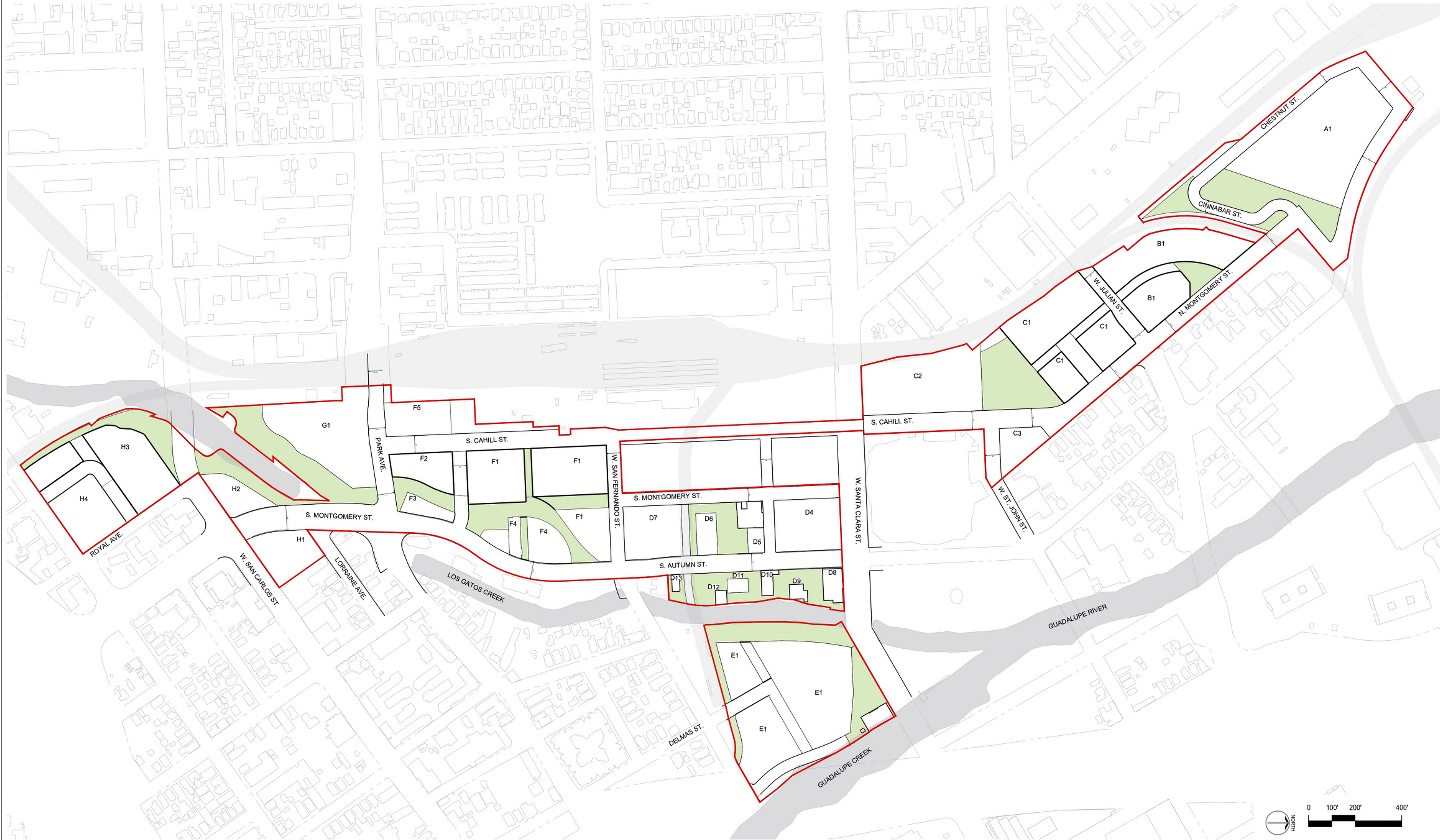
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## COVER SHEET

C0.0



P:\2018\18-077\_DIRDON\_MP04\_DESIGN\SHEETS\C1.0 SITE.DWG



LEGEND

DEVELOPMENT BOUNDARY	
DEVELOPMENT BLOCKS	
RAIL	
CREEK	
OPEN SPACE	

INFRASTRUCTURE PLANS

DOWNTOWN WEST

San Jose, California

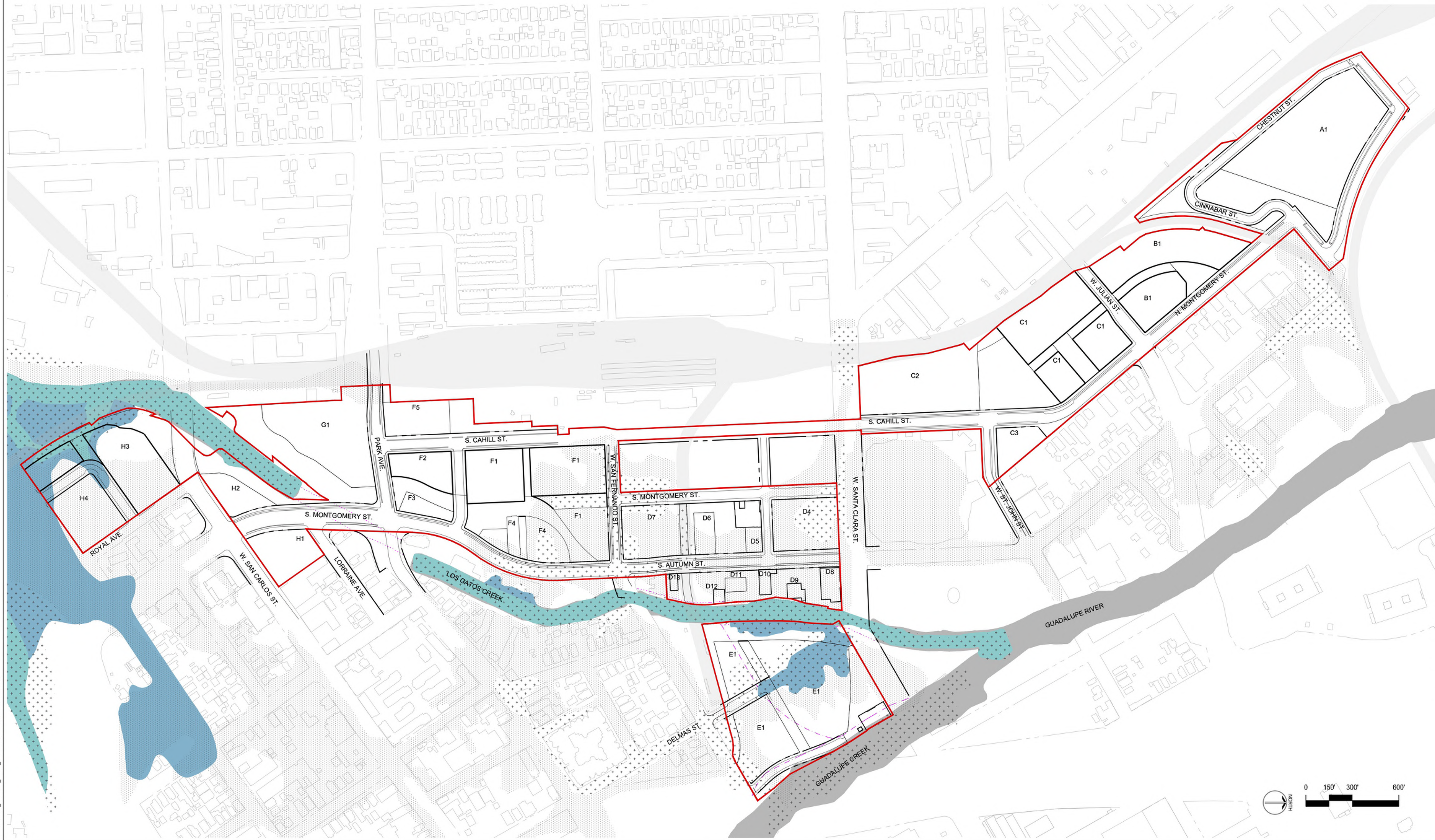
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6	07 OCTOBER 2020	DATE:
7		SCALE:
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SITE PLAN

C1.0



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#### NOTES

- FLOOD ZONES ARE DEFINED AS THE FOLLOWING:  
a. FLOOD ZONE A: AREAS SUBJECT TO THE 1% ANNUAL FLOOD WITH AVERAGE DEPTHS GREATER THAN ONE FOOT.  
b. FLOOD ZONE X: SHALLOW FLOODING FROM THE 1% ANNUAL FLOOD WITH AVERAGE DEPTHS LESS THAN ONE FOOT.
- FEMA FLOOD ZONE BOUNDARIES PER EFFECTIVE FEMA FLOOD INSURANCE STUDY (FIS) NUMBER 06085CV001B DATED FEBRUARY 19, 2014 AND FEMA, FLOOD INSURANCE RATE MAP NUMBER 06085C0234H, MAY 18, 2009.
- THE VALLEY WATER FLOOD ZONE SHOWN IS DEFINED BY THE LOS GATOS CREEK HEC-RAS HYDRAULIC MODEL DATED 12/14/2019.
- THE PROPOSED FLOOD ZONE IS DEFINED BY THE CREEK MITIGATIONS AND MODIFICATIONS AS DESCRIBED IN THE DOWNTOWN WEST INFRASTRUCTURE PLAN.
- A DETAILED FLOOD ANALYSIS WILL BE REQUIRED IN SUBSEQUENT DESIGN PHASES FOR ANY PROPOSED BUILDINGS WHICH ARE LOCATED WITHIN FLOOD ZONE A, IN ORDER TO DETERMINE THE FINAL SITE GRADING AND FINISHED FLOOR ELEVATION(S).

#### LEGEND

DEVELOPMENT BOUNDARY	
RIGHT OF WAY	
FACE OF CURB	
(E) FEMA FLOOD ZONE A	
(E) FEMA FLOOD ZONE X	
(E) VALLEY WATER FLOOD ZONE A	
(E) VALLEY WATER FLOOD ZONE X	
PROPOSED FLOOD ZONE A	
PROPOSED FLOOD ZONE X	

## INFRASTRUCTURE PLANS

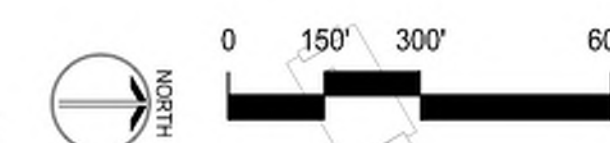
### DOWNTOWN WEST

San Jose, California

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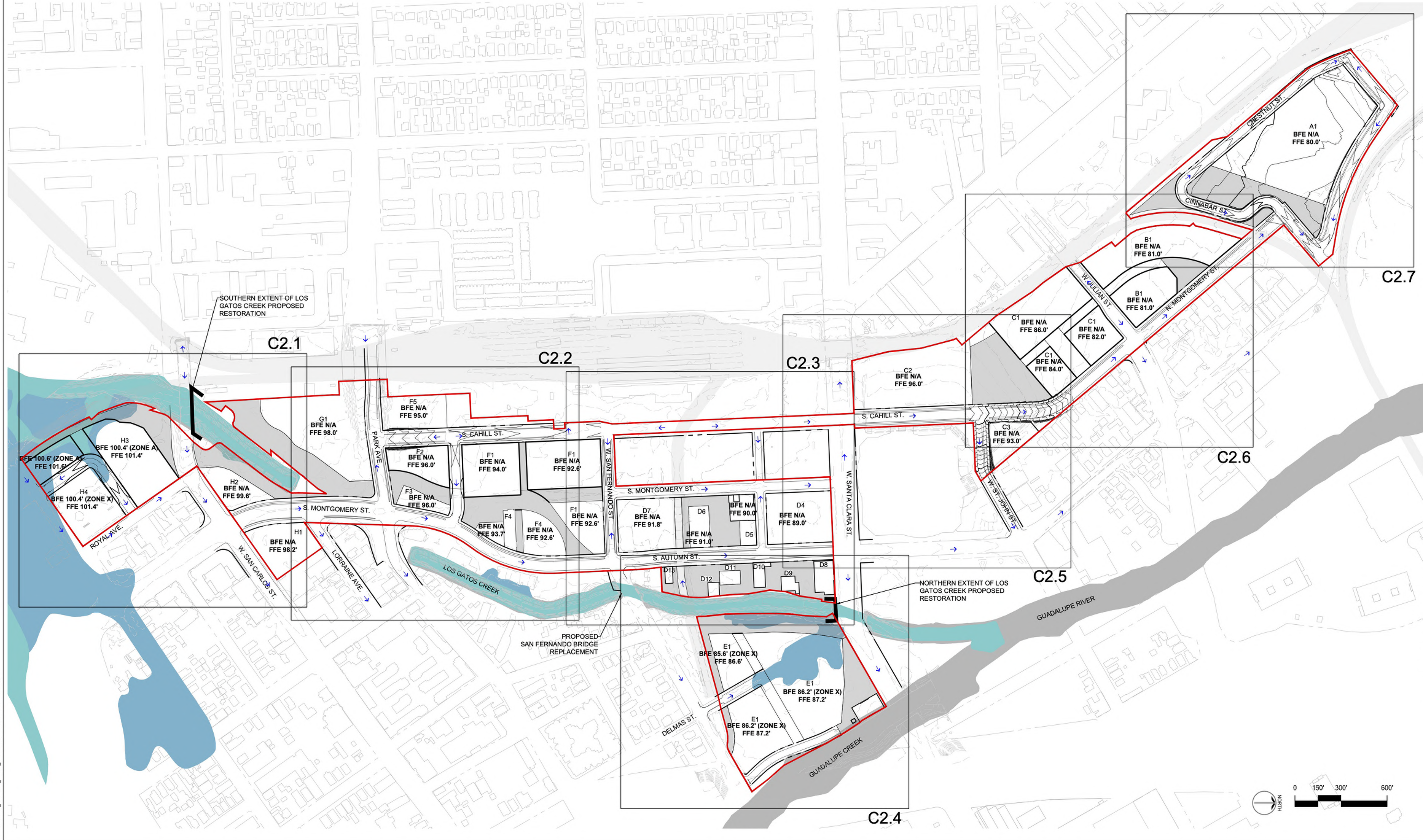
## FLOODPLAIN MAP

C1.1





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NOTES

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2. IN AREAS WITH A DEFINED BFE, THE FINISH FLOOD ELEVATIONS (FFE) REPRESENT THE MINIMUM ELEVATION ALLOWED. IN AREAS WITHOUT A DEFINED BFE, FINISH FLOOR ELEVATIONS (FFE) ARE APPROXIMATE. FFEs WILL BE FURTHER DETERMINED IN FUTURE DESIGN PHASES.
3. NO CHANGES ARE PROPOSED TO EXISTING BUILDING FINISHED FLOOR ELEVATIONS.
4. A DETAILED FLOOD ANALYSIS WILL BE REQUIRED IN SUBSEQUENT DESIGN PHASES FOR ANY PROPOSED BUILDINGS WHICH ARE LOCATED WITHIN FLOOD ZONE A, IN ORDER TO DETERMINE THE FINAL SITE GRADING AND FINISHED FLOOR ELEVATION(S).

LEGEND

- DEVELOPMENT BOUNDARY
- (E) MINOR CONTOUR
- (E) MAJOR CONTOUR
- MINOR CONTOUR
- MAJOR CONTOUR
- RIGHT OF WAY
- (E) FACE OF CURB
- FACE OF CURB
- PROPOSED FLOOD ZONE A
- PROPOSED FLOOD ZONE X
- OPEN SPACE
- RAILWAY
- OVERLAND FLOW DIRECTION
- EXISTING BUILDING TO REMAIN

INFRASTRUCTURE PLANS

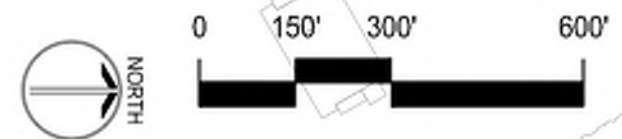
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San Jose, California



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GRADING PLAN  
KEYMAP

C2.0





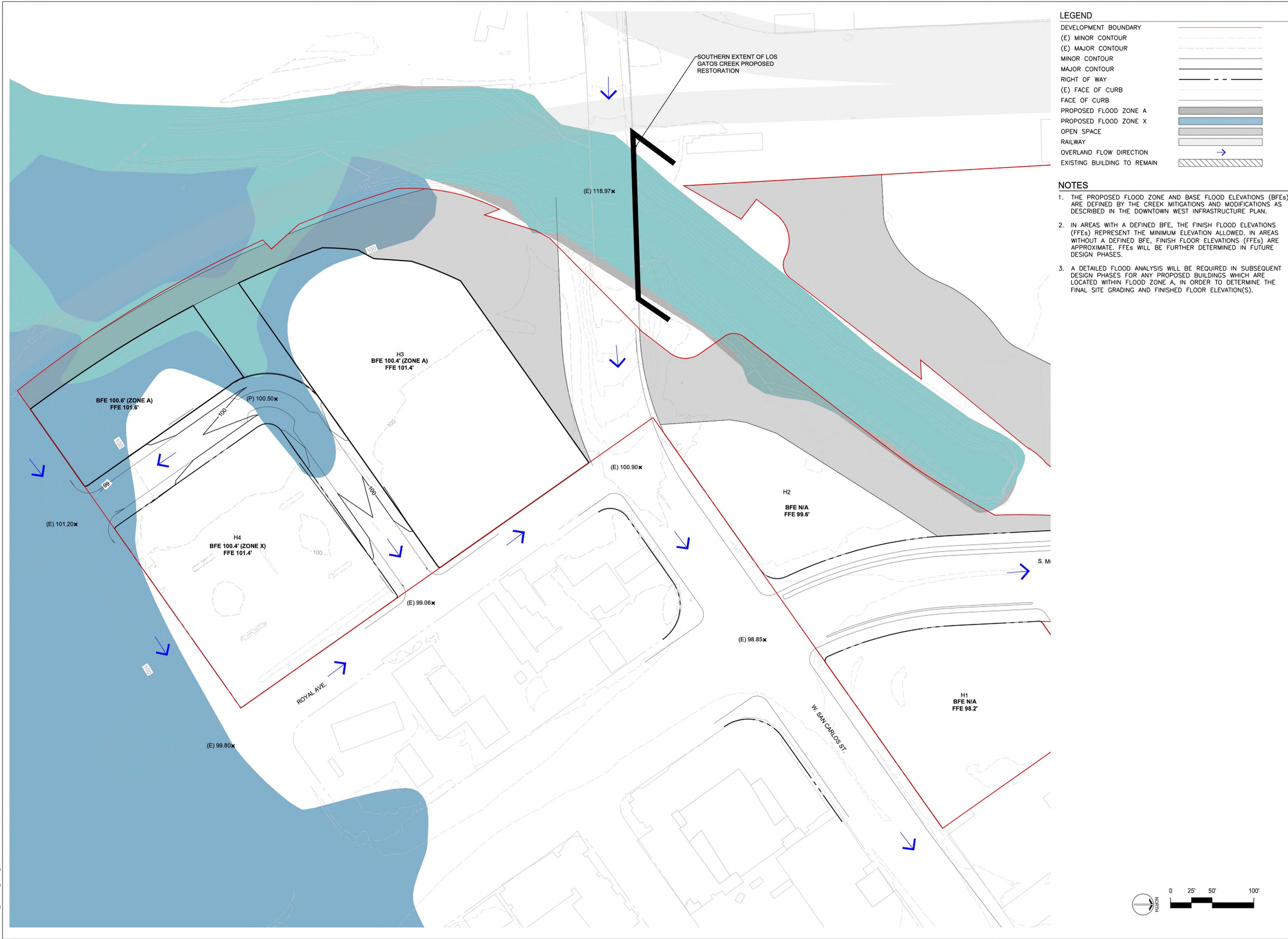
INFRASTRUCTURE PLANS

DOWNTOWN WEST  
San Jose, California

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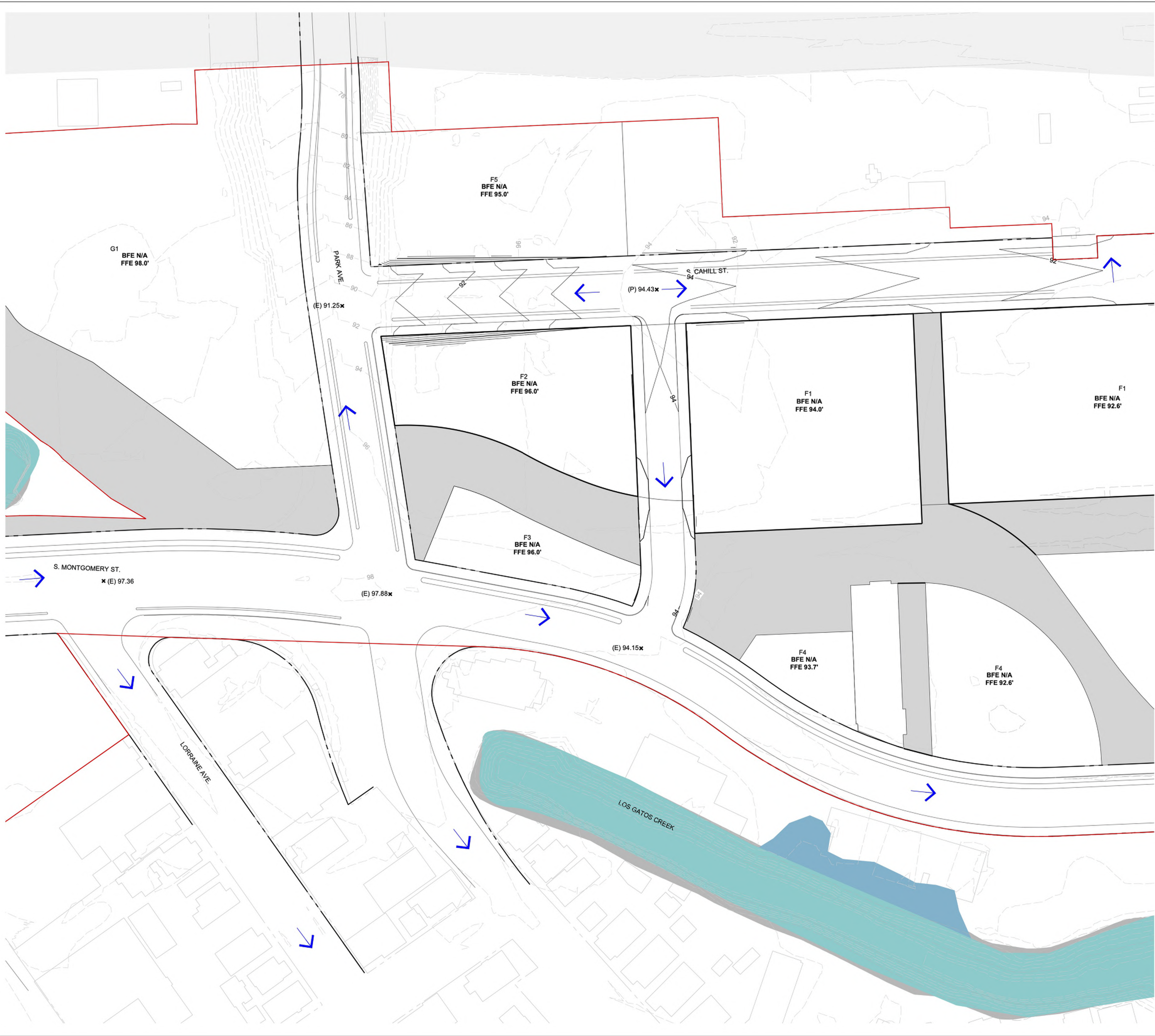
## GRADING PLAN

## C2.1





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LEGEND	
DEVELOPMENT BOUNDARY	---
(E) MINOR CONTOUR	- - - - -
(E) MAJOR CONTOUR	-----
MINOR CONTOUR	-----
MAJOR CONTOUR	-----
RIGHT OF WAY	- - - - -
(E) FACE OF CURB	-----
FACE OF CURB	-----
PROPOSED FLOOD ZONE A	██████████
PROPOSED FLOOD ZONE X	██████████
OPEN SPACE	██████████
RAILWAY	██████████
OVERLAND FLOW DIRECTION	→
EXISTING BUILDING TO REMAIN	▨▨▨▨▨▨

- NOTES**
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INFRASTRUCTURE PLANS  
DOWNTOWN WEST  
San Jose, California

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PROJECT NO:	18-077	
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GRADING PLAN

C2.2














LEGEND	
DEVELOPMENT BOUNDARY	
(E) MINOR CONTOUR	
(E) MAJOR CONTOUR	
MINOR CONTOUR	
MAJOR CONTOUR	
RIGHT OF WAY	
(E) FACE OF CURB	
FACE OF CURB	
PROPOSED FLOOD ZONE A	
PROPOSED FLOOD ZONE X	
OPEN SPACE	
RAILWAY	
OVERLAND FLOW DIRECTION	
EXISTING BUILDING TO REMAIN	

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INFRASTRUCTURE PLANS

DOWNTOWN WEST  
San Jose, California

					
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## GRADING PLAN

## C2.3





**LEGEND**

DEVELOPMENT BOUNDARY  
(E) MINOR CONTOUR  
(E) MAJOR CONTOUR  
MINOR CONTOUR  
MAJOR CONTOUR  
RIGHT OF WAY  
(E) FACE OF CURB  
FACE OF CURB  
PROPOSED FLOOD ZONE A  
PROPOSED FLOOD ZONE X  
OPEN SPACE  
RAILWAY  
OVERLAND FLOW DIRECTION  
EXISTING BUILDING TO REMAIN

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**INFRASTRUCTURE PLANS**

**DOWNTOWN WEST**

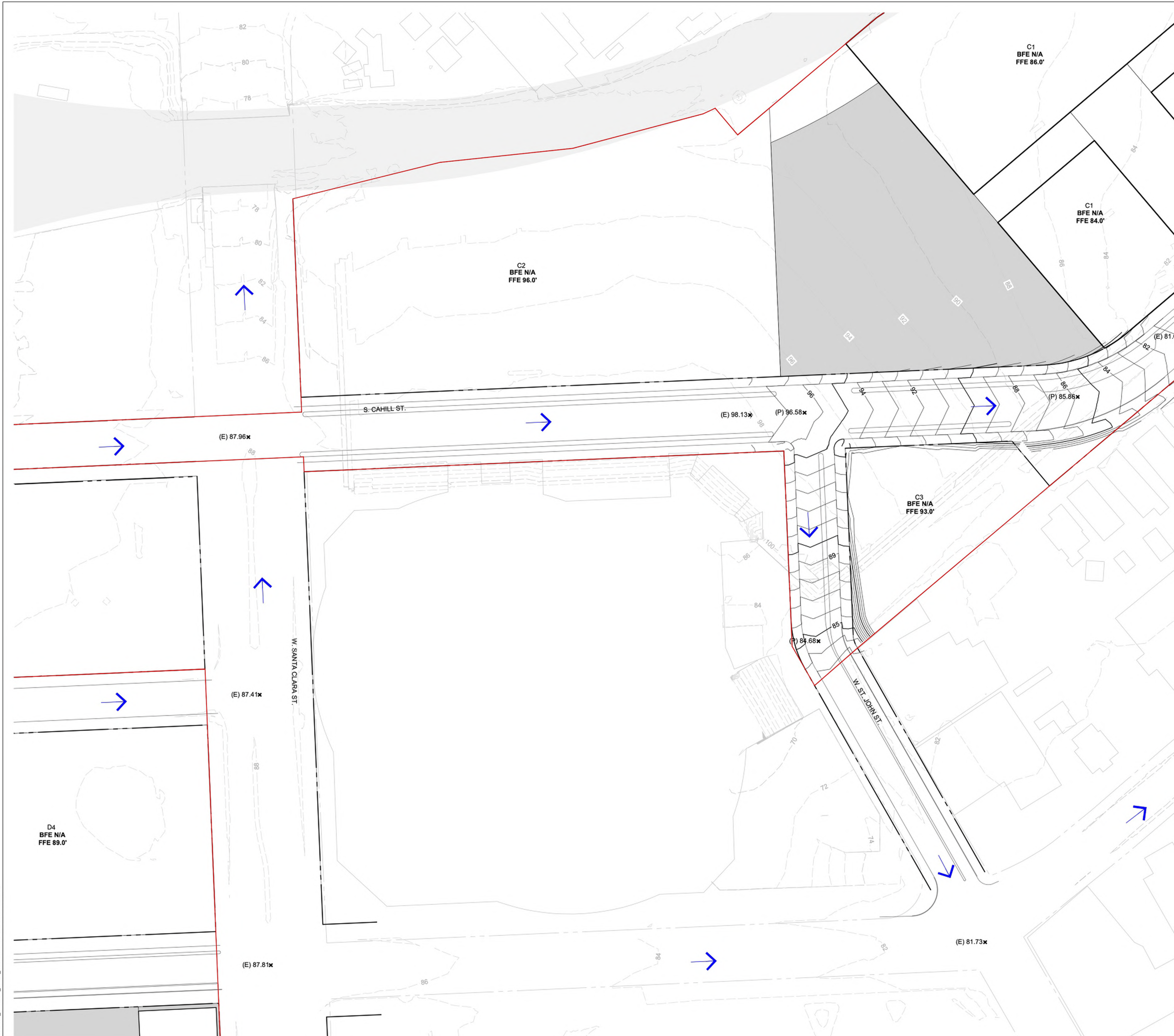
**San Jose, California**




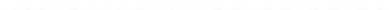




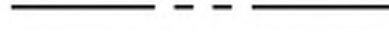




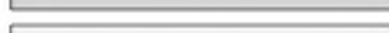
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7		SCALE:
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**GRADING PLAN**

**C2.4**











LEGEND	
DEVELOPMENT BOUNDARY	
(E) MINOR CONTOUR	
(E) MAJOR CONTOUR	
MINOR CONTOUR	
MAJOR CONTOUR	
RIGHT OF WAY	
(E) FACE OF CURB	
FACE OF CURB	
PROPOSED FLOOD ZONE A	
PROPOSED FLOOD ZONE X	
OPEN SPACE	
RAILWAY	
OVERLAND FLOW DIRECTION	
EXISTING BUILDING TO REMAIN	

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INFRASTRUCTURE PLANS

DOWNTOWN WEST  
San Jose, California

		
		
		
		
		
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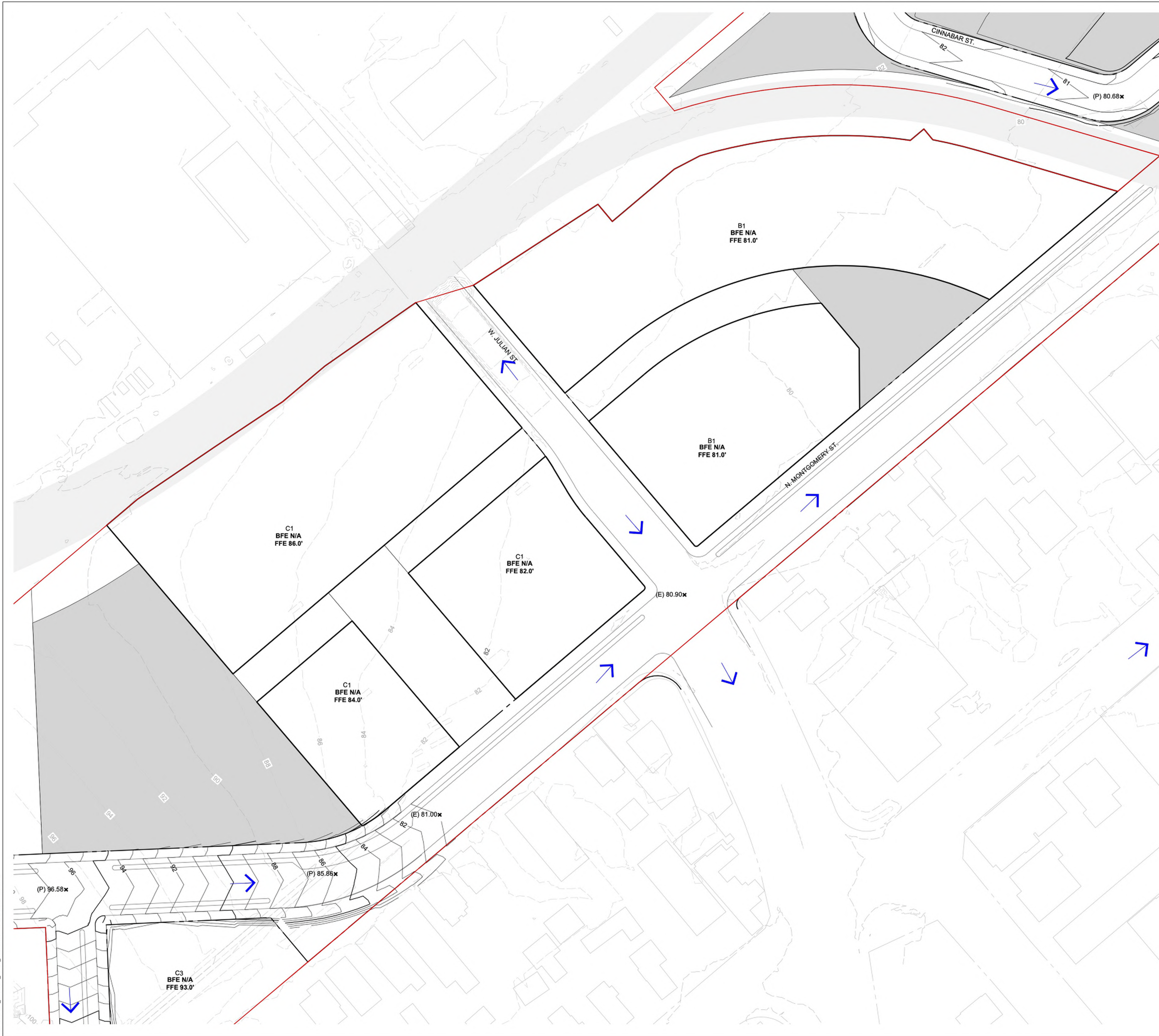
## GRADING PLAN

## C2.5





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**LEGEND**

DEVELOPMENT BOUNDARY  
(E) MINOR CONTOUR  
(E) MAJOR CONTOUR  
MINOR CONTOUR  
MAJOR CONTOUR  
RIGHT OF WAY  
(E) FACE OF CURB  
FACE OF CURB  
PROPOSED FLOOD ZONE A  
PROPOSED FLOOD ZONE X  
OPEN SPACE  
RAILWAY  
OVERLAND FLOW DIRECTION  
EXISTING BUILDING TO REMAIN

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INFRASTRUCTURE PLANS

DOWNTOWN WEST

San Jose, California

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8		SHERWOOD DESIGN ENGINEERS

GRADING PLAN

C2.6



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LEGEND	
DEVELOPMENT BOUNDARY	
(E) MINOR CONTOUR	
(E) MAJOR CONTOUR	
MINOR CONTOUR	
MAJOR CONTOUR	
RIGHT OF WAY	
(E) FACE OF CURB	
FACE OF CURB	
PROPOSED FLOOD ZONE A	
PROPOSED FLOOD ZONE X	
OPEN SPACE	
RAILWAY	
OVERLAND FLOW DIRECTION	
EXISTING BUILDING TO REMAIN	

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DOWNTOWN WEST  
San Jose, California

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1		SHERWOOD DESIGN ENGINEERS

GRADING PLAN

C2.7









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#### LEGEND

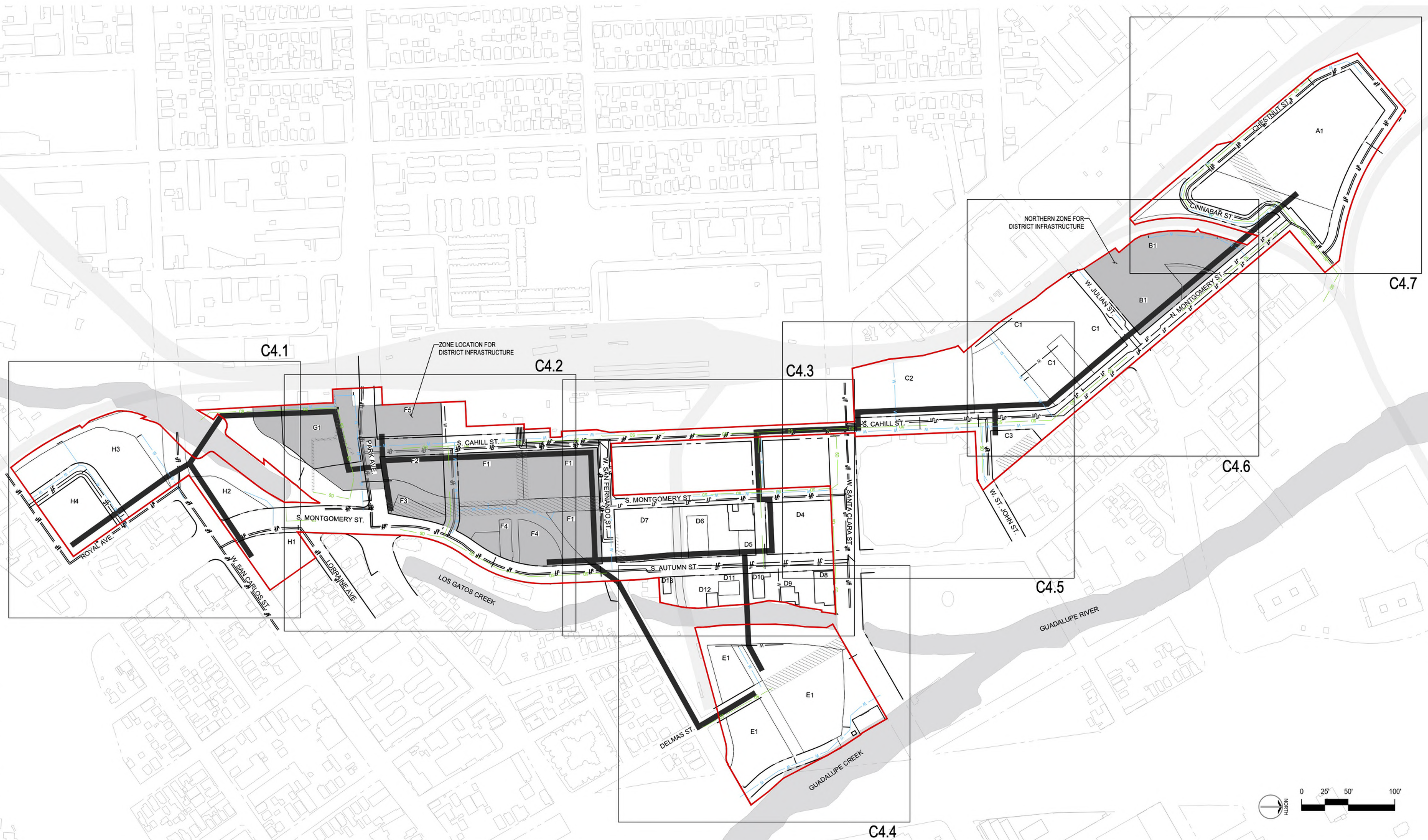
DEVELOPMENT BOUNDARY  
RIGHT OF WAY  
FACE OF CURB  
GAS LINE  
ELECTRIC LINE  
JOINT TRENCH  
SANITARY SEWER LINE

STORM DRAIN LINE  
WATER LINE  
FIRE HYDRANT  
DEMO ALL (E) UTILITIES IN  
STREET TO BE VACATED  
DISTRICT INFRASTRUCTURE  
ZONES  
PROPOSED UTILIDOR  
RAILWAY

STORM DRAIN LINE  
WATER LINE  
FIRE HYDRANT  
DEMO ALL (E) UTILITIES IN  
STREET TO BE VACATED  
DISTRICT INFRASTRUCTURE  
ZONES  
PROPOSED UTILIDOR  
RAILWAY

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## INFRASTRUCTURE PLANS DOWNTOWN WEST San Jose, California

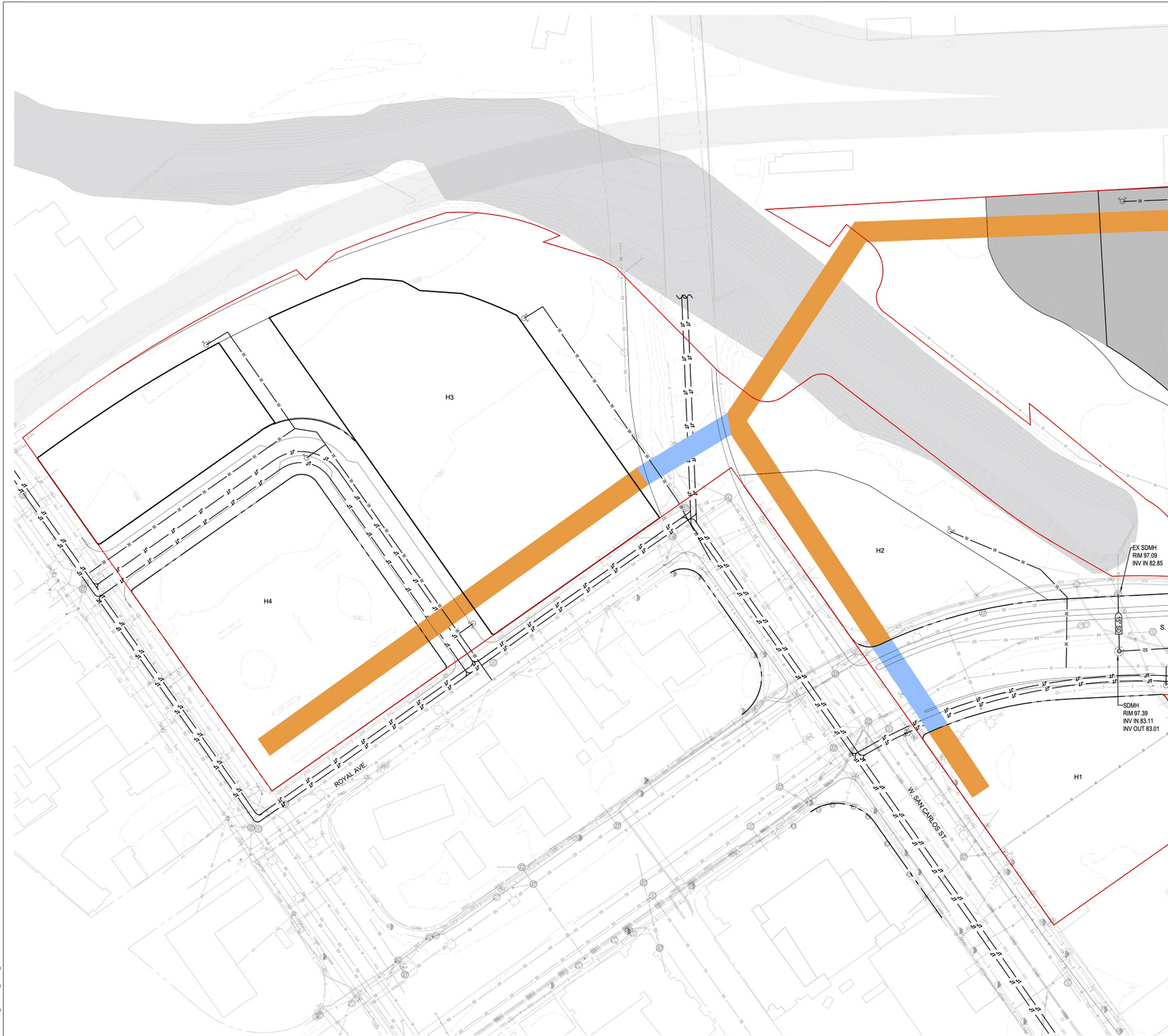


NO	DATE	DESCRIPTION
1	18-077	PROJECT NO.
2	C4.0 UTIL.DWG	CAD DWG FILE:
3	AG	DESIGNED BY:
4	CQ	DRAWN BY:
5	BB	CHECKED BY:
6	07 OCTOBER 2020	DATE:
7		SCALE:
8		

UTILITY PLAN  
KEYMAP

C4.0





LEGEND	
DEVELOPMENT BOUNDARY	
(E) MINOR CONTOUR	
(E) MAJOR CONTOUR	
RIGHT OF WAY	
(E) FACE OF CURB	
FACE OF CURB	
DEMO UTILITY LINE	
(E) COMMUNICATIONS LINE	
(E) ELECTRIC LINE	
(E) GAS LINE	
(E) OVERHEAD LINE	
(E) SANITARY SEWER LINE	
(E) STORM DRAIN LINE	
(E) WATER LINE	
GAS LINE	
ELECTRIC LINE	
JOINT TRENCH	
SANITARY SEWER LINE	
STORM DRAIN LINE	
WATER LINE	
(E) FIRE HYDRANT	
(E) ELECTRICAL POLE	
(E) ELECTRICAL PULL BOX	
(E) UTILITY POLE	
(E) SANITARY SEWER CLEANOUT	
(E) SANITARY SEWER MANHOLE	
(E) STORM DRAIN CLEAN OUT	
(E) STORM DRAIN MANHOLE	
(E) WATER METER	
(E) WATER VALVE	
FIRE HYDRANT	
SANITARY SEWER MANHOLE	
STORM DRAIN CLEANOUT	
STORM DRAIN MANHOLE	
DEMO ALL (E) UTILITIES IN STREET TO BE VACATED	
DISTRICT INFRASTRUCTURE ZONES	
PROPOSED UTILIDOR	
PROPOSED UTILIDOR WITHIN PUBLIC ROW, SEE MAJOR ENCROACHMENT PERMIT	
RAILWAY	




INFRASTRUCTURE PLANS

DOWNTOWN WEST  
San Jose, California

DOWNTOWN WEST  
San Jose, California

San Jose, California

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CHECKED BY:		BB
DATE:		07 OCTOBER 2020
SCALE:		
 SHERWOOD DESIGN ENGINEERS		

## UTILITY PLAN

## C4.1



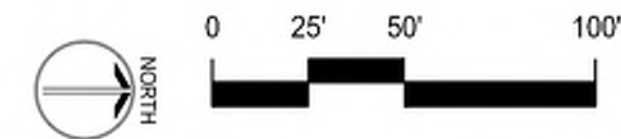


**LEGEND**

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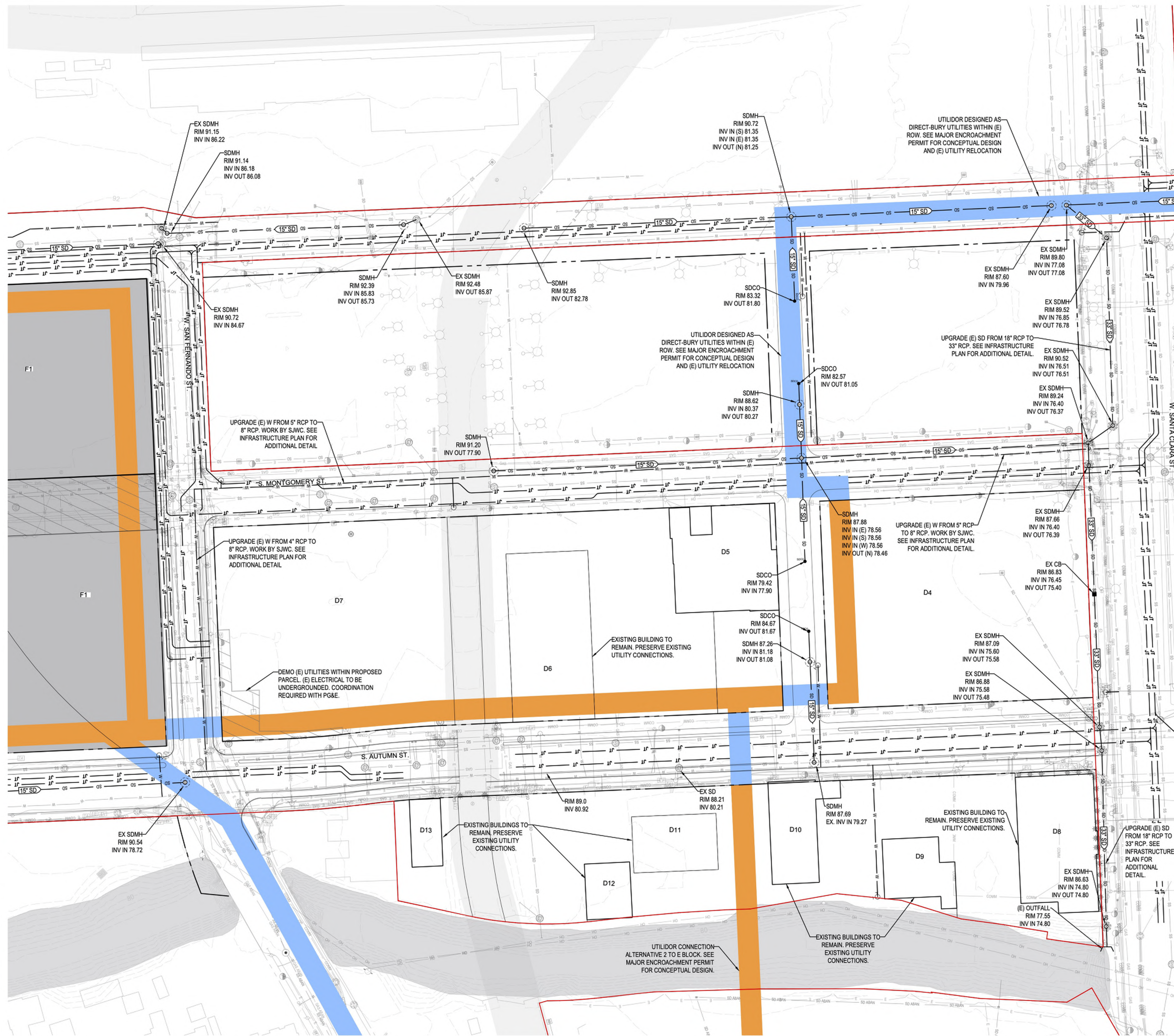
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**DOWNTOWN WEST**  
**San Jose, California**

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UTILITY PLAN

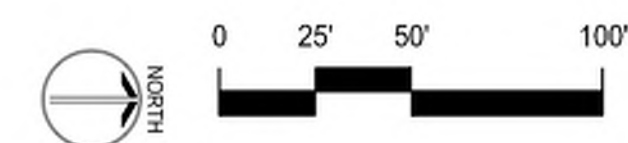
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**LEGEND**

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RAILWAY



**INFRASTRUCTURE PLANS**  
**DOWNTOWN WEST**  
**San Jose, California**

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SCALE:		
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**UTILITY PLAN**

**C4.3**





**LEGEND**

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FACE OF CURB  
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PROPOSED UTILIDOR WITHIN PUBLIC ROW. SEE MAJOR ENCROACHMENT PERMIT  
RAILWAY



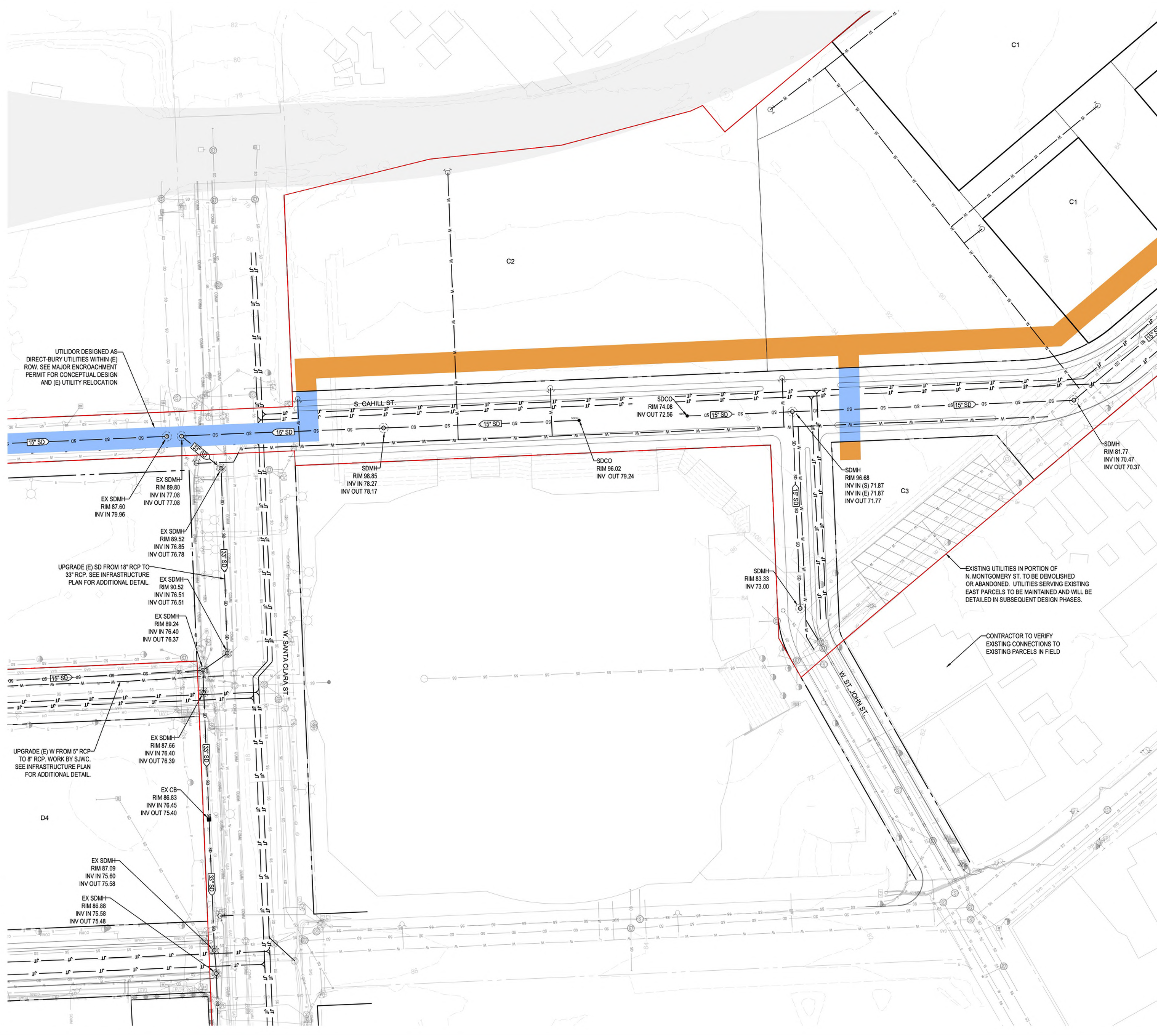
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**DOWNTOWN WEST**  
**San Jose, California**

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SCALE:		
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UTILITY PLAN

C4.4





**LEGEND**

DEVELOPMENT BOUNDARY  
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RIGHT OF WAY  
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GAS LINE  
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RAILWAY



**INFRASTRUCTURE PLANS**  
**DOWNTOWN WEST**  
**San Jose, California**

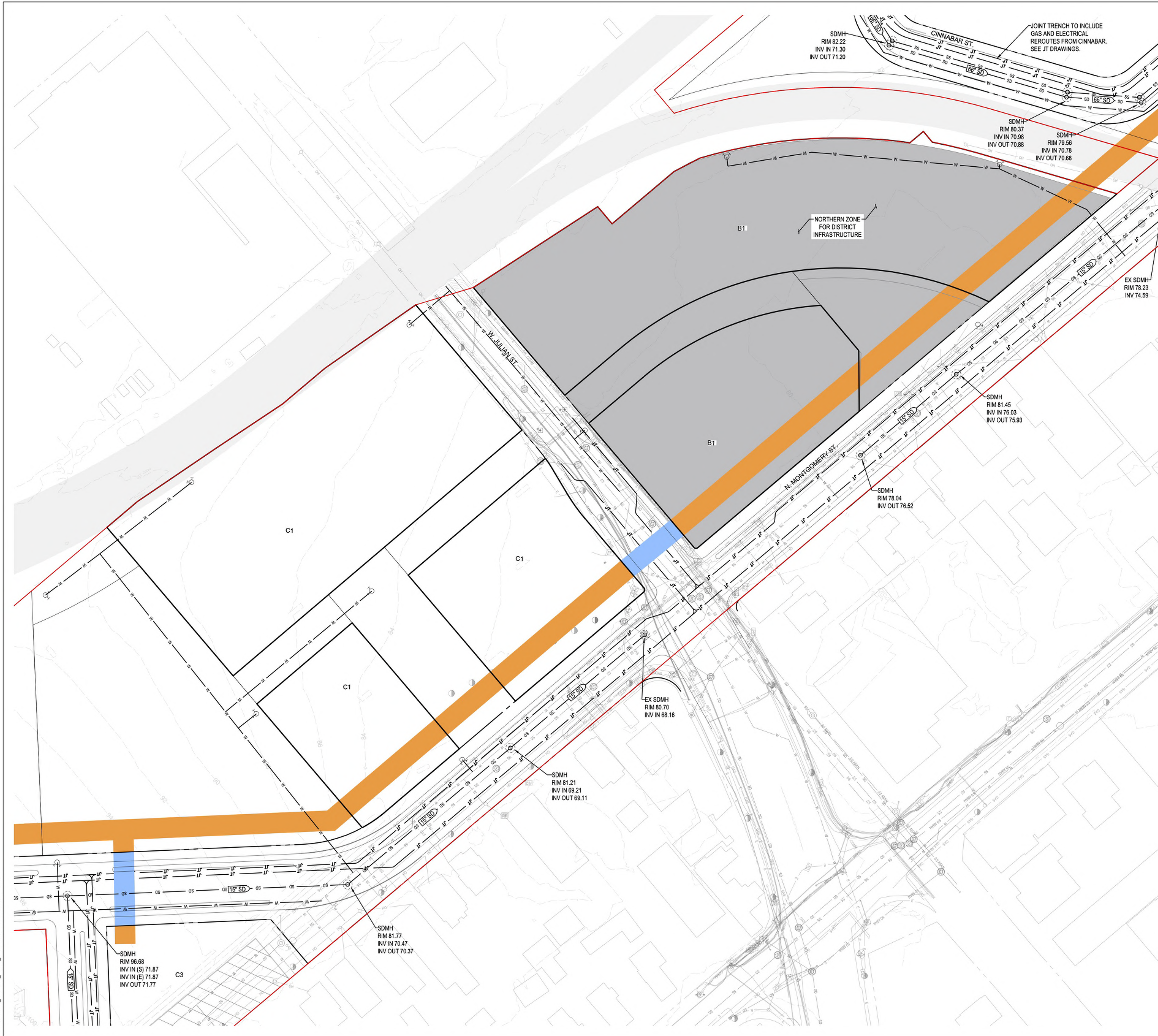
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SCALE:		
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UTILITY PLAN

C4.5



P:\2018\18-077\_DIRON\_MF04\_DESIGN\18-077 UTIL.DWG



LEGEND

DEVELOPMENT BOUNDARY

(E) MINOR CONTOUR

(E) MAJOR CONTOUR

RIGHT OF WAY

(E) FACE OF CURB

FACE OF CURB

DEMO UTILITY LINE

(E) COMMUNICATIONS LINE

(E) ELECTRIC LINE

(E) GAS LINE

(E) OVERHEAD LINE

(E) SANITARY SEWER LINE

(E) STORM DRAIN LINE

(E) WATER LINE

GAS LINE

ELECTRIC LINE

JOINT TRENCH

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STORM DRAIN LINE

WATER LINE

(E) FIRE HYDRANT

(E) ELECTRICAL POLE

(E) ELECTRICAL PULL BOX

(E) UTILITY POLE

(E) SANITARY SEWER CLEANOUT

(E) SANITARY SEWER MANHOLE

(E) STORM DRAIN CLEAN OUT

(E) STORM DRAIN MANHOLE

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FIRE HYDRANT

SANITARY SEWER MANHOLE

STORM DRAIN CLEANOUT

STORM DRAIN MANHOLE

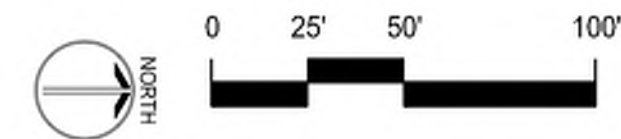
DEMO ALL (E) UTILITIES IN STREET TO BE VACATED

DISTRICT INFRASTRUCTURE ZONES

PROPOSED UTILIDOR

PROPOSED UTILIDOR WITHIN PUBLIC ROW, SEE MAJOR ENCROACHMENT PERMIT

RAILWAY



2548 Mission Street  
San Francisco, CA 94110  
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INFRASTRUCTURE PLANS

DOWNTOWN WEST  
San Jose, California

NO	DATE	DESCRIPTION
	18-077	PROJECT NO.
	C-4.0 UTIL.DWG	CAD DWG FILE:
	AG	DESIGNED BY:
	CQ	DRAWN BY:
	BB	CHECKED BY:
	07 OCTOBER 2020	DATE:
		SCALE:
		SHERWOOD DESIGN ENGINEERS

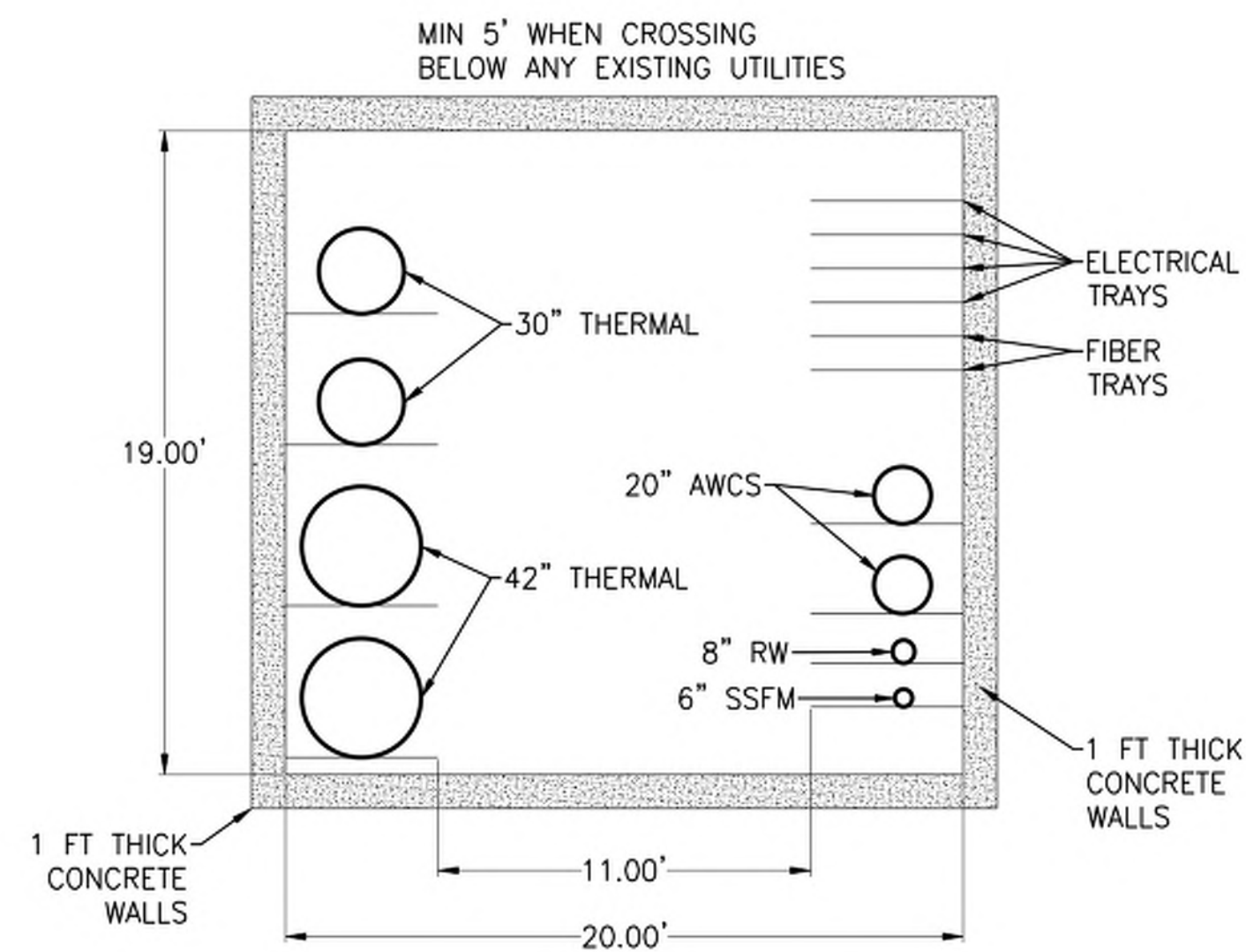
UTILITY PLAN

C4.6









1 CONCEPTUAL UTILIDOR TUNNEL SECTION  
SCALE: NTS

INFRASTRUCTURE PLANS  
DOWNTOWN WEST  
San Jose, California

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NO	DATE	DESCRIPTION
PROJECT NO:		
CAD DWG FILE: C-5.0 DETAILS.DWG		
DESIGNED BY: AG		
DRAWN BY: CQ		
CHECKED BY: BB		
DATE: 07 OCTOBER 2020		
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DETAILS

C5.1

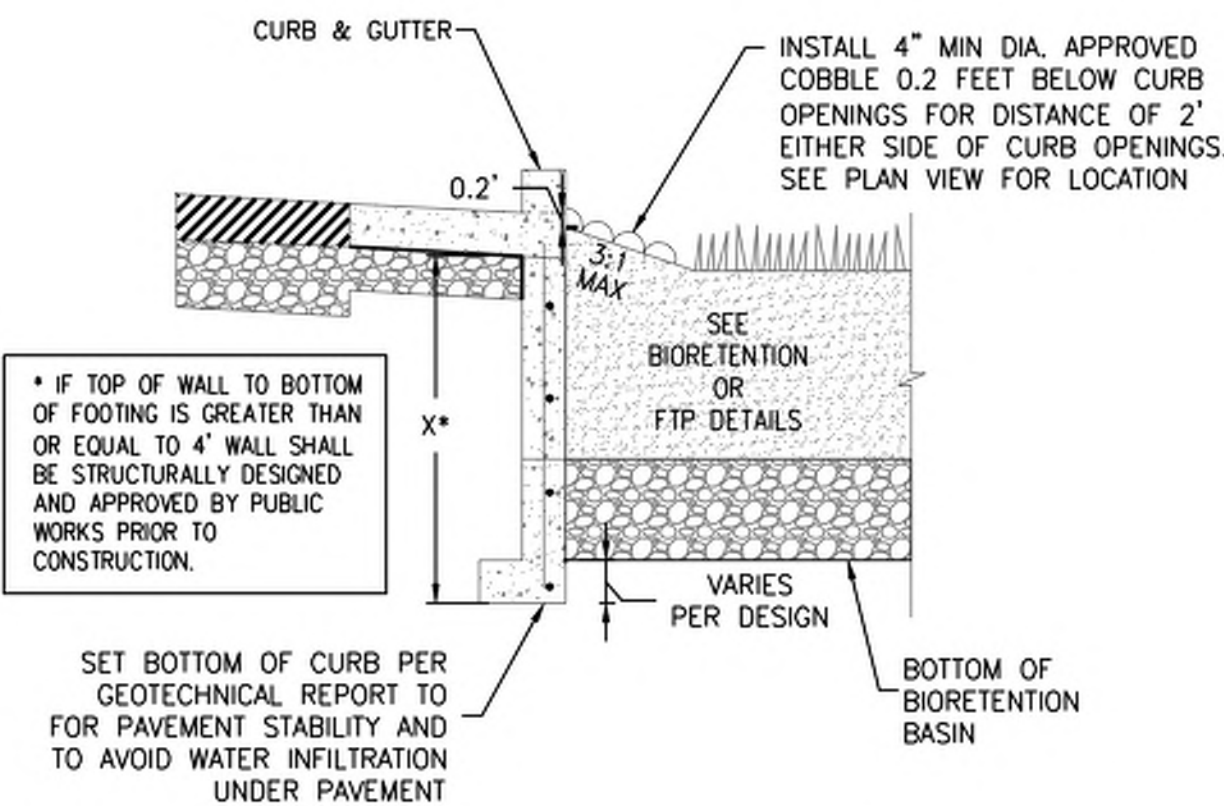


INFRASTRUCTURE PLANS  
DOWNTOWN WEST  
San Jose, California

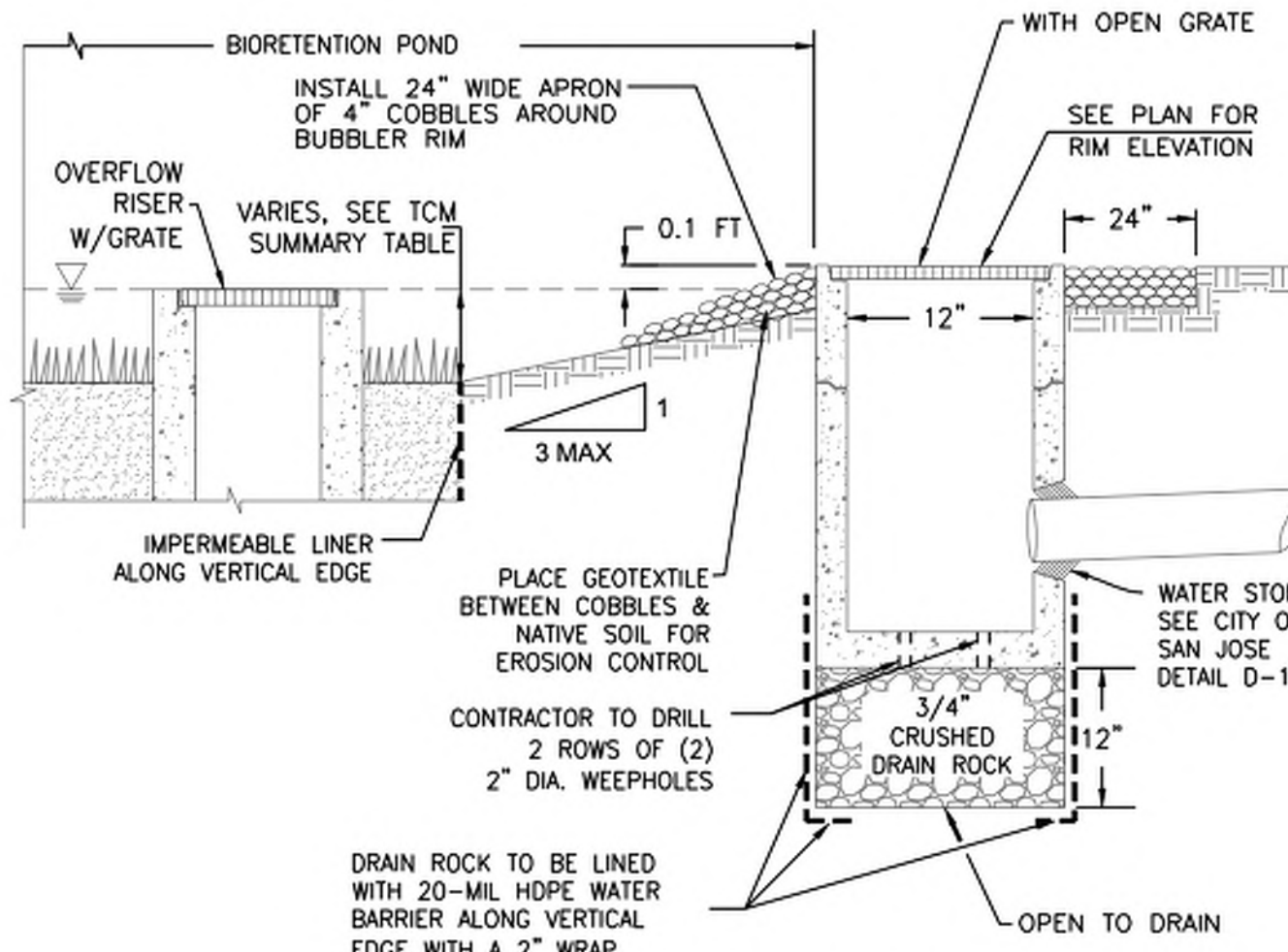
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CITY OF SAN  
JOSE DETAILS

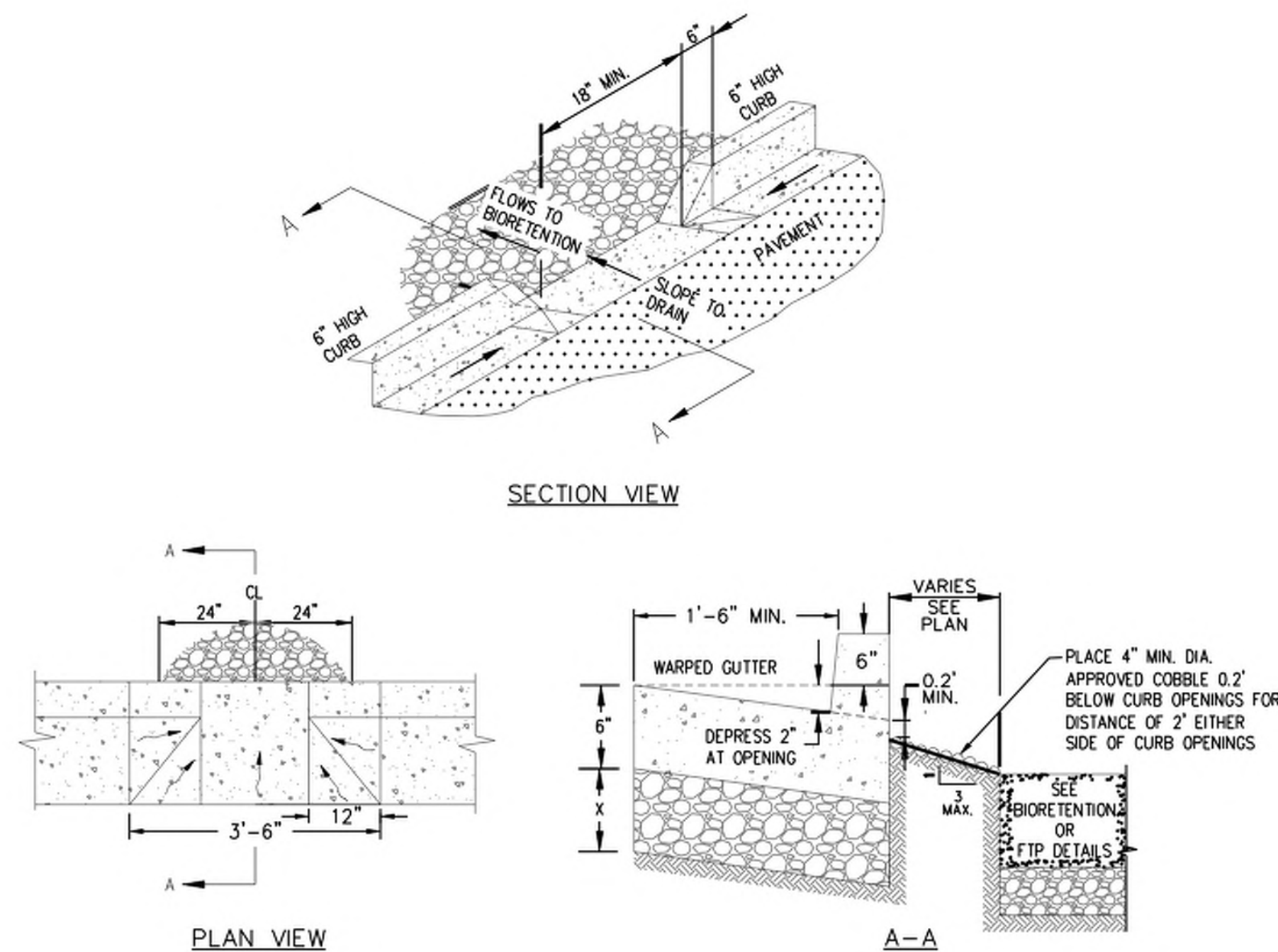
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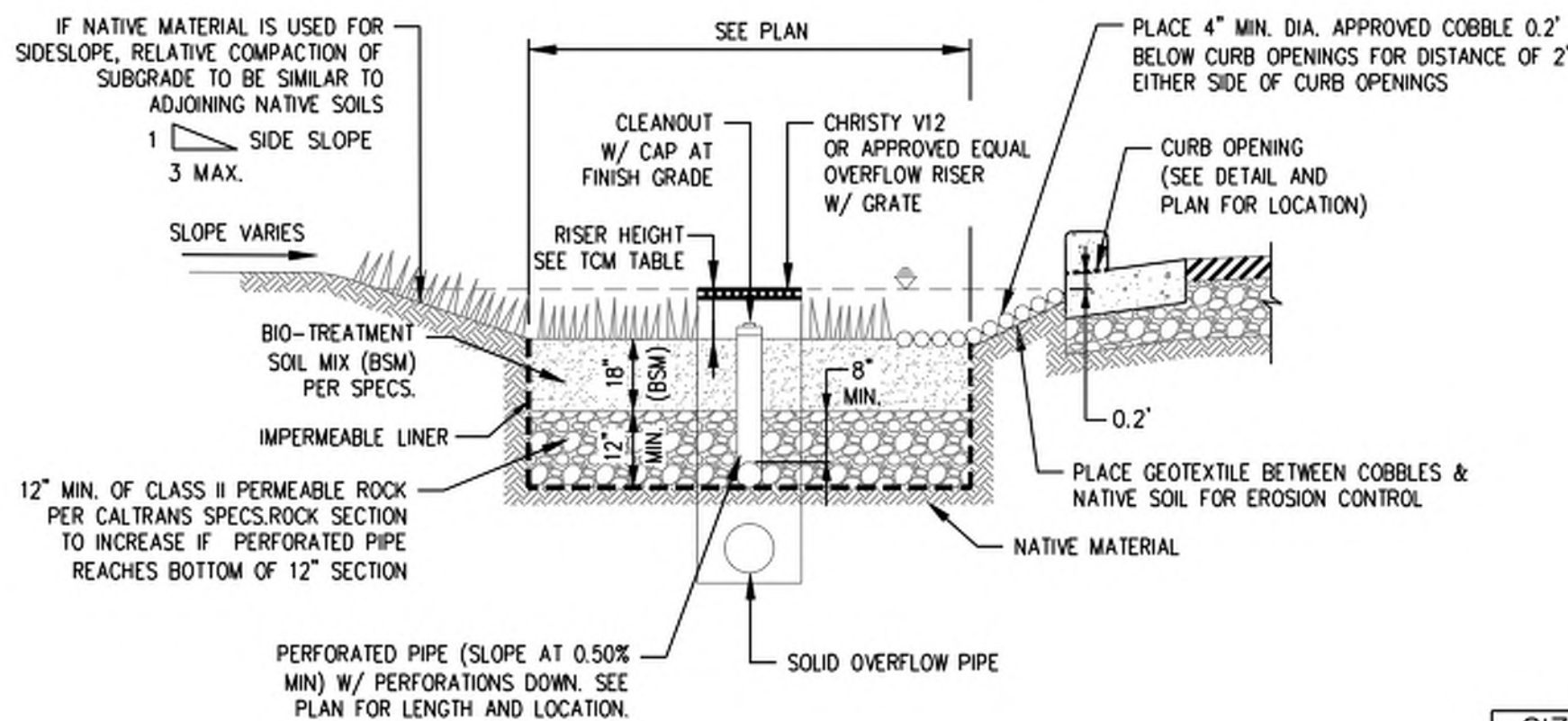
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SCALE: NTS



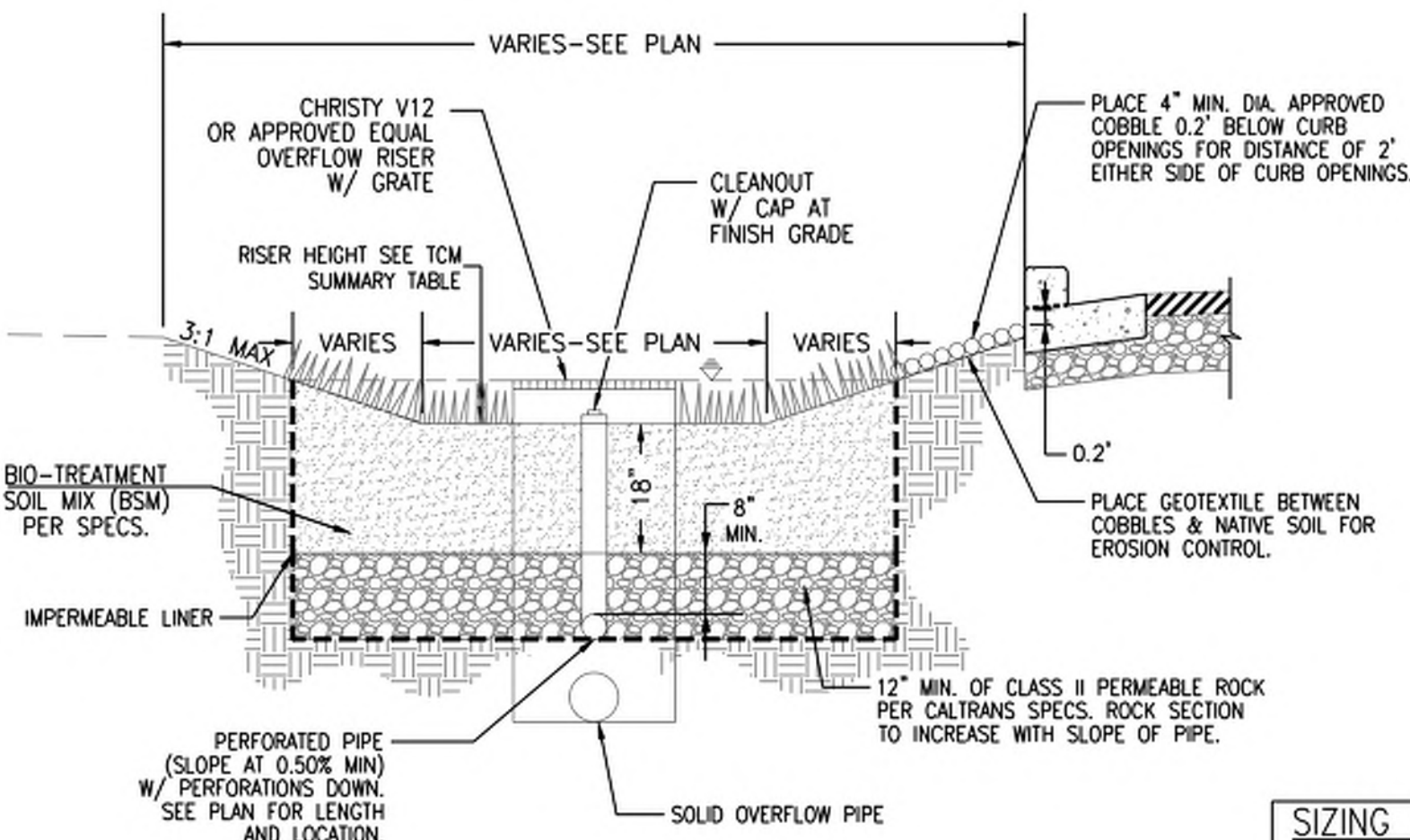
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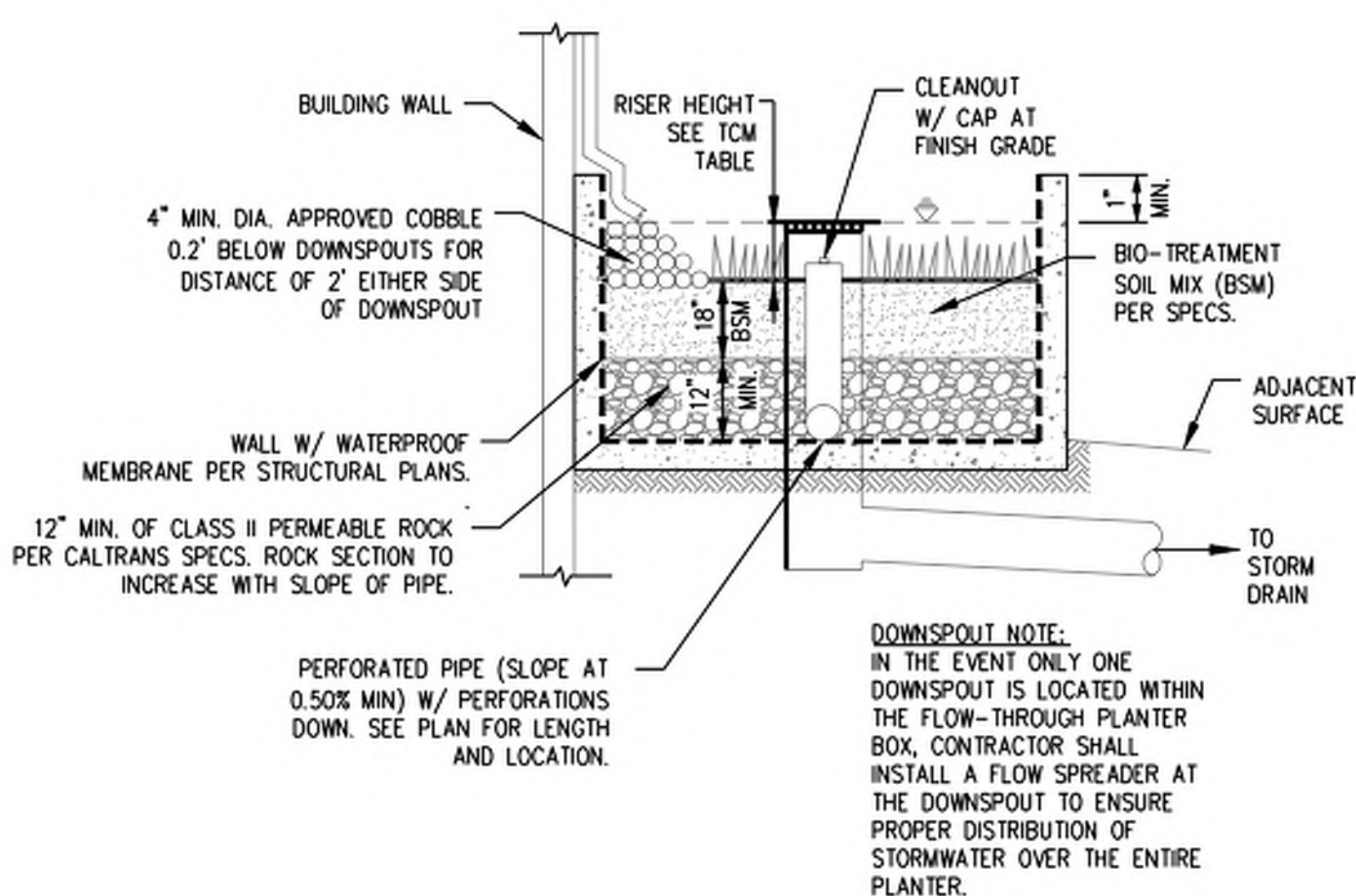
C CURB OPENING  
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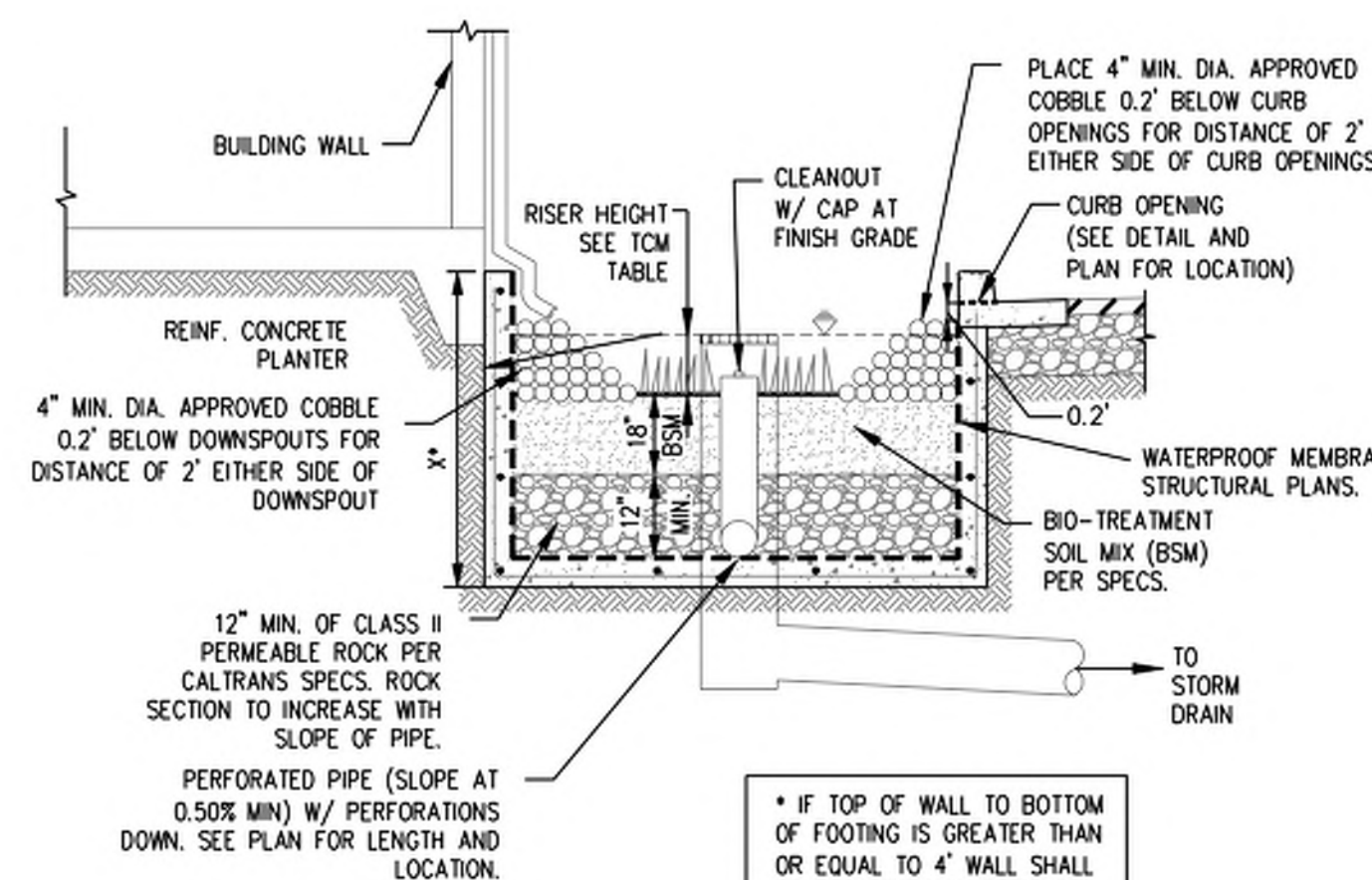
D BIORETENTION BASIN W/ LINER  
SCALE: NTS



E BIORETENTION BASIN W/ LINER  
SCALE: NTS



F FLOW-THROUGH PLANTER (ABOVE GROUND)  
SCALE: NTS



G FLOW-THROUGH PLANTER (BELOW GROUND)  
SCALE: NTS

BIORETENTION SOIL REQUIREMENTS

- BIORETENTION SOIL MIX SHALL MEET THE REQUIREMENTS AS OUTLINED IN APPENDIX C OF THE C.3 STORM WATER HANDBOOK AND SHALL BE A MIXTURE OF FINE SAND AND COMPOST MEASURED ON A VOLUME BASIS OF 60-70% SAND AND 30-40% COMPOST. CONTRACTOR TO REFER TO APPENDIX C FOR SAND AND COMPOST MATERIAL SPECIFICATIONS. CONTRACTOR MAY OBTAIN A COPY OF THE C.3 HANDBOOK AT : [HTTP://WWW.SANJOSECA.GOV/INDEX.ASPX?NID=1761](http://www.sanjoseca.gov/index.aspx?nid=1761)
- PRIOR TO ORDERING THE BIOTREATMENT SOIL MIX OR DELIVERY TO THE PROJECT SITE, CONTRACTOR SHALL PROVIDE A BIOTREATMENT SOIL MIX SPECIFICATION CHECKLIST, COMPLETED BY THE SOIL MIX SUPPLIER AND CERTIFIED TESTING LAB.

BIORETENTION & FLOW-THROUGH PLANTER NOTES:

- SEE GRADING PLAN FOR BASIN FOOTPRINT AND DESIGN ELEVATIONS.
- PLACE 3 INCHES OF COMPOSTED, NON-FLOATABLE MULCH IN AREAS BETWEEN STORMWATER PLANTINGS.
- SEE LANDSCAPE PLAN FOR MULCH, PLANT MATERIALS AND IRRIGATION REQUIREMENTS
- CURB CUTS SHALL BE A MINIMUM 18" WIDE AND SPACED AT MAXIMUM 10' O.C. INTERVALS AND SLOPED TO DIRECT STORMWATER TO DRAIN INTO THE BASIN. CURB CUTS SHALL ALSO NOT BE PLACED IN LINE WITH OVERFLOW CATCH BASIN. SEE GRADING PLAN FOR MORE DETAIL ON LOCATIONS OF CURB CUTS.
- A MINIMUM 0.2' DROP BETWEEN STORM WATER ENTRY POINT (I.E. CURB OPENING, FLUSH CURB, ETC.) AND ADJACENT LANDSCAPE FINISHED GRADE.
- DO NOT COMPACT NATIVE SOIL / SUBGRADE AT BOTTOM OF BASIN. LOOSEN SOIL TO 12" DEPTH.



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INFRASTRUCTURE PLANS  
DOWNTOWN WEST  
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CITY OF SAN  
JOSE DETAILS

C5.3

PERVIOUS CONCRETE REQUIREMENTS

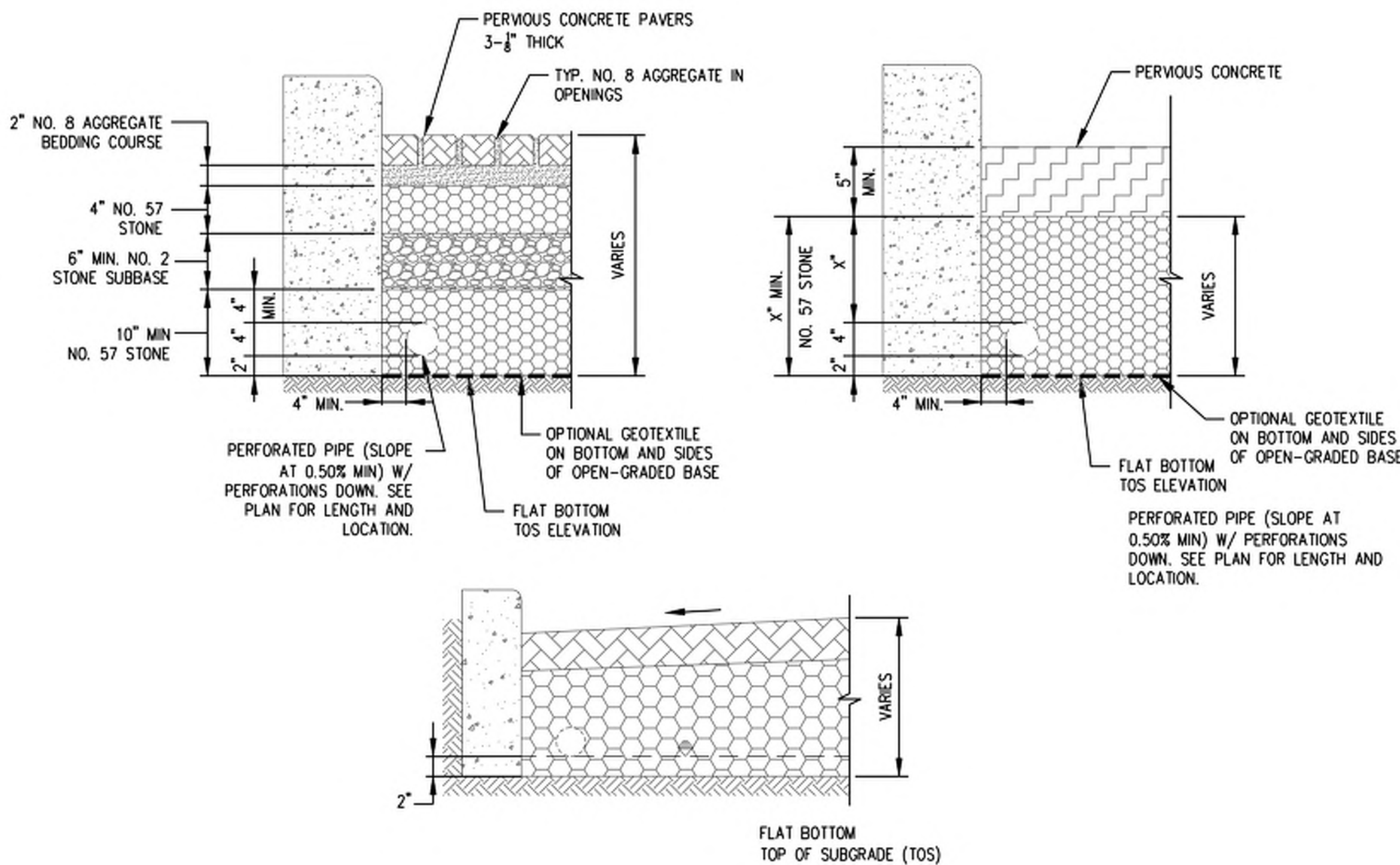
CONTRACTOR OR PERMITEE SHALL:

- PROVIDE CERTIFICATION FROM THE CONCRETE MANUFACTURER THAT THE CONCRETE MEETS THE REQUIREMENTS OF THE C3 STORMWATER HANDBOOK FOR PERVIOUS PAVERS. THIS INCLUDES, BUT IS NOT LIMITED TO, HAVING A MINIMUM SURFACE INFILTRATION RATE OF 100"/HR WHEN TESTED IN ACCORDANCE WITH ASTM C1701.
- ONLY CONTRACTORS HOLDING CERTIFICATION OF COMPLETION FROM THE NATIONAL READY MIX CONCRETE ASSOCIATION (NRMA) SHALL INSTALL THE CONCRETE AND AT LEAST ONE FOREMAN WITH THIS CERTIFICATION MUST BE ON THE JOB SITE AT ALL TIMES DURING CONCRETE INSTALLATION.
- PROTECT THE EXCAVATED AREA FROM EXCESSIVE COMPACTION DUE TO CONSTRUCTION TRAFFIC AND PROTECT THE FINISHED PAVEMENT FROM CONSTRUCTION TRAFFIC.

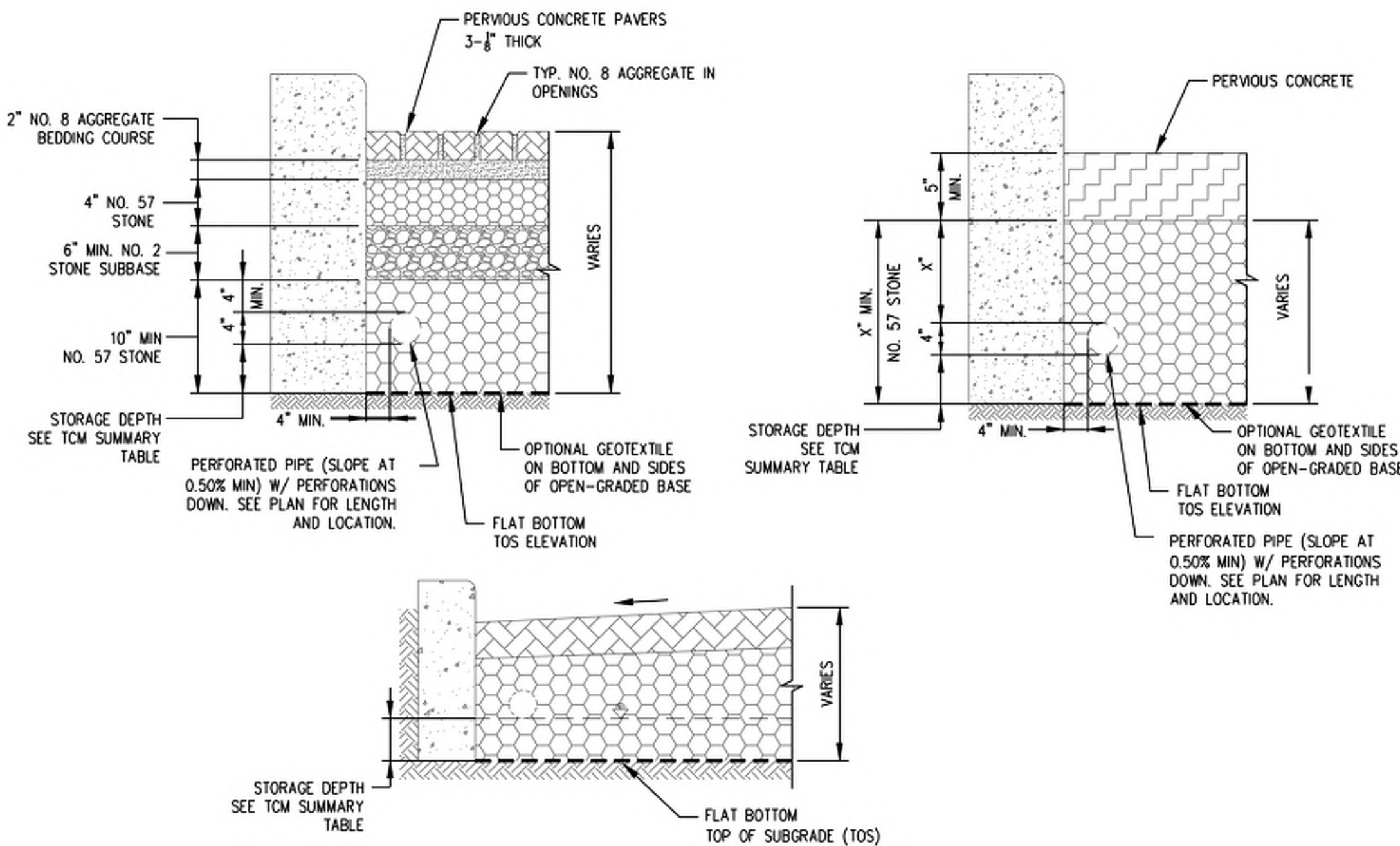
PERVIOUS PAVER REQUIREMENTS

CONTRACTOR OR PERMITEE SHALL:

- PROVIDE CERTIFICATION FROM THE PAVER MANUFACTURER THAT THE PAVERS MEET THE REQUIREMENTS OF THE C3 STORMWATER HANDBOOK FOR PERVIOUS PAVERS. THIS INCLUDES, BUT IS NOT LIMITED TO, HAVING A MINIMUM SURFACE INFILTRATION RATE OF 100"/HR WHEN TESTED IN ACCORDANCE WITH ASTM C1701.
- ONLY CONTRACTORS HOLDING CERTIFICATION OF COMPLETION IN THE INTERLOCKING CONCRETE PAVEMENT INSTITUTES PICP INSTALLER TECHNICIAN COURSE SHALL BE USED TO INSTALL THE PAVERS AND AT LEAST ONE FOREMAN WITH THIS CERTIFICATION MUST BE ON THE JOBSITE AT ALL TIMES DURING CONCRETE PAVER INSTALLATION.
- PROTECT THE EXCAVATED AREA FOR PERVIOUS PAVERS FROM EXCESSIVE COMPACTION DUE TO CONSTRUCTION TRAFFIC AND PROTECT THE FINISHED PAVEMENT FROM CONSTRUCTION TRAFFIC.



A Pervious Pavement (Self-Treating)  
SCALE: NTS



B Pervious Pavement (Self-Retaining)  
SCALE: NTS



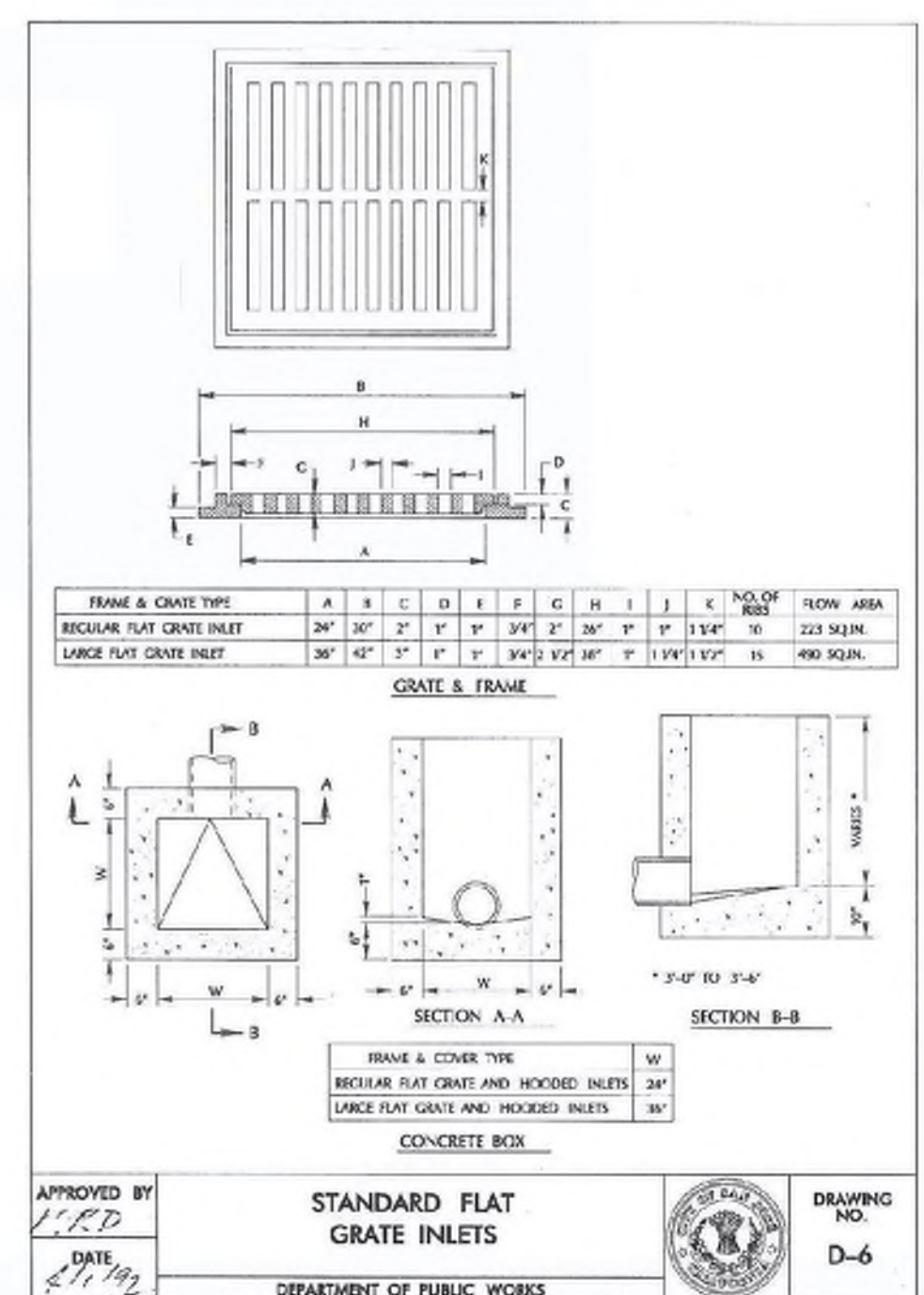
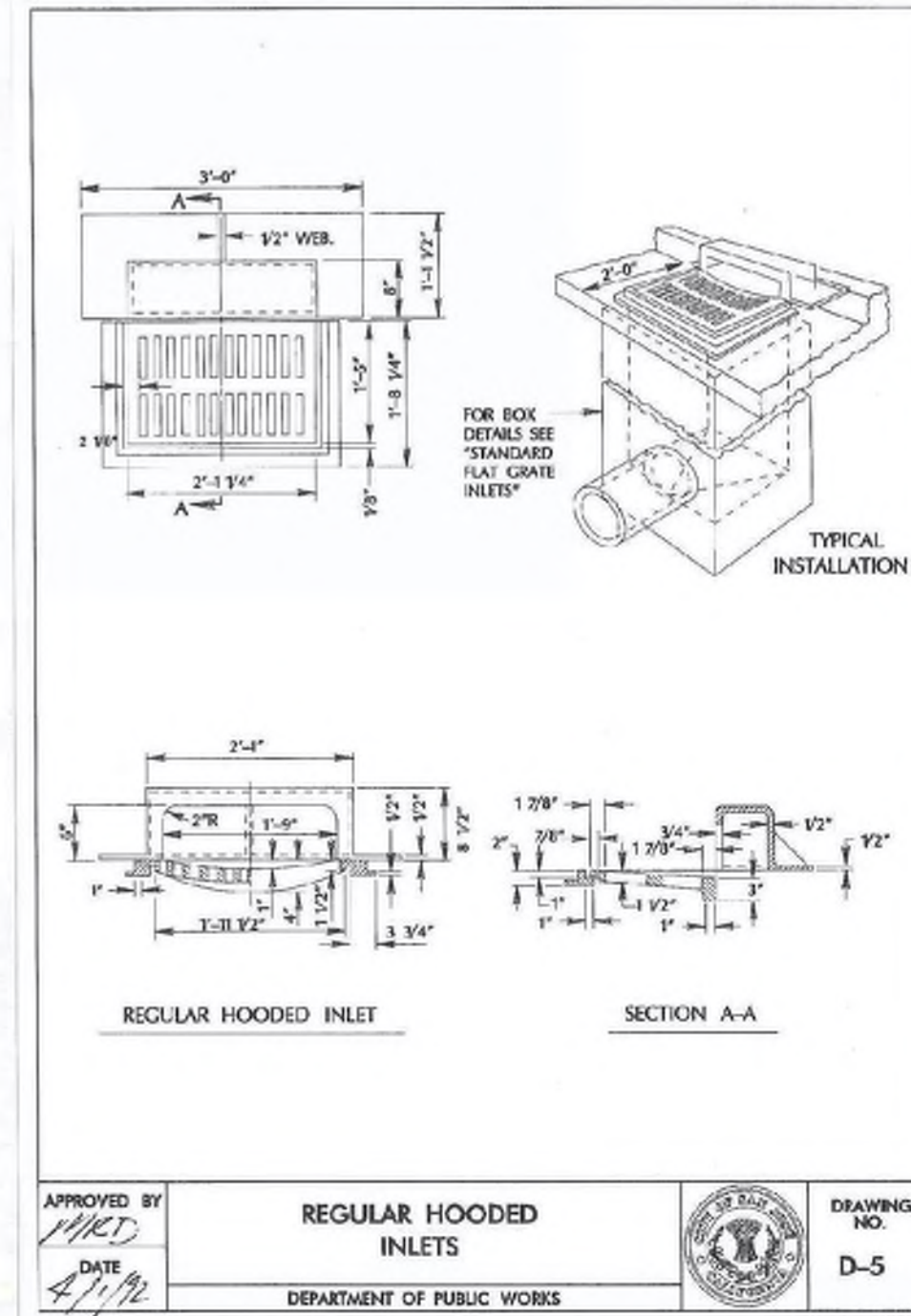
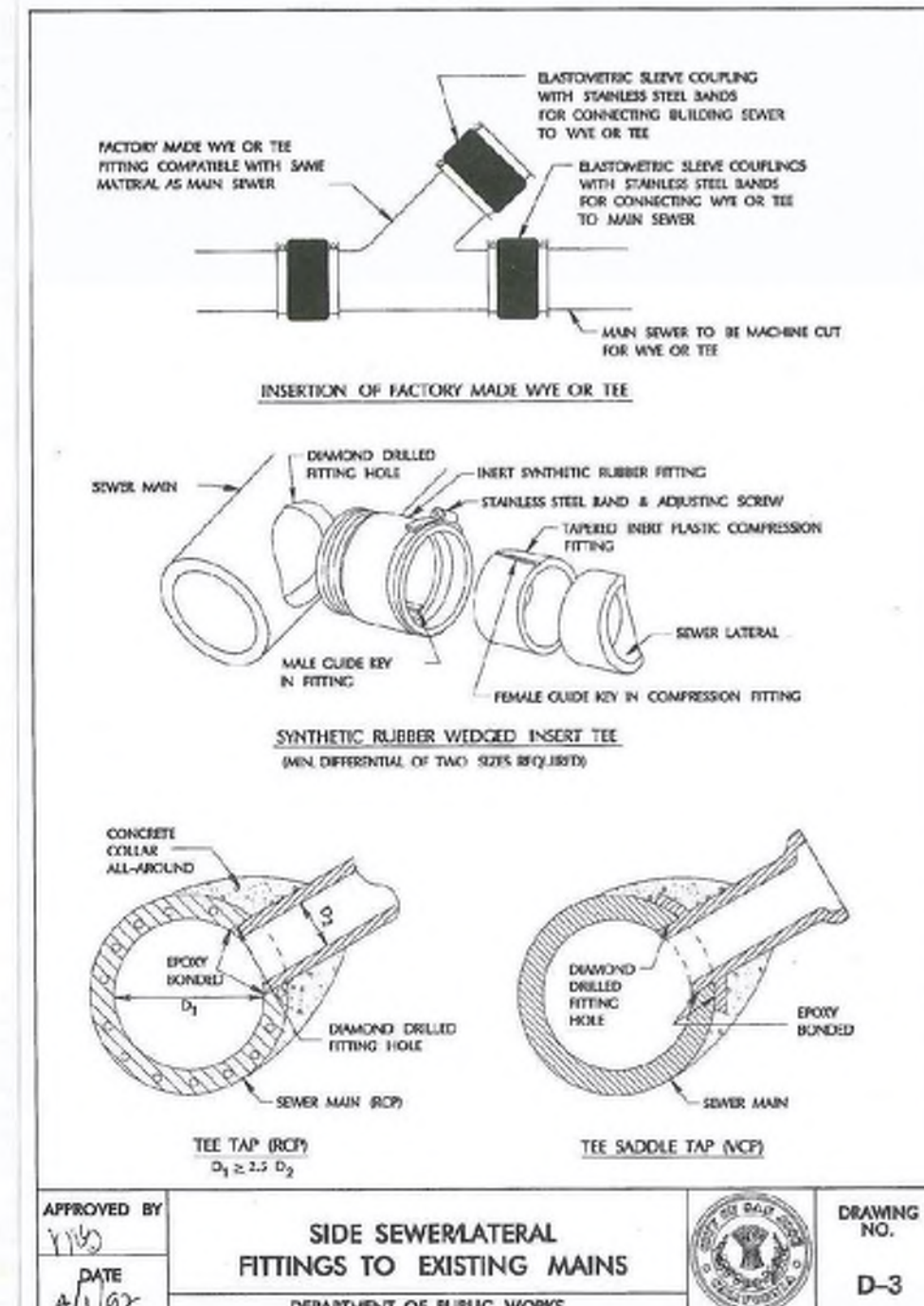
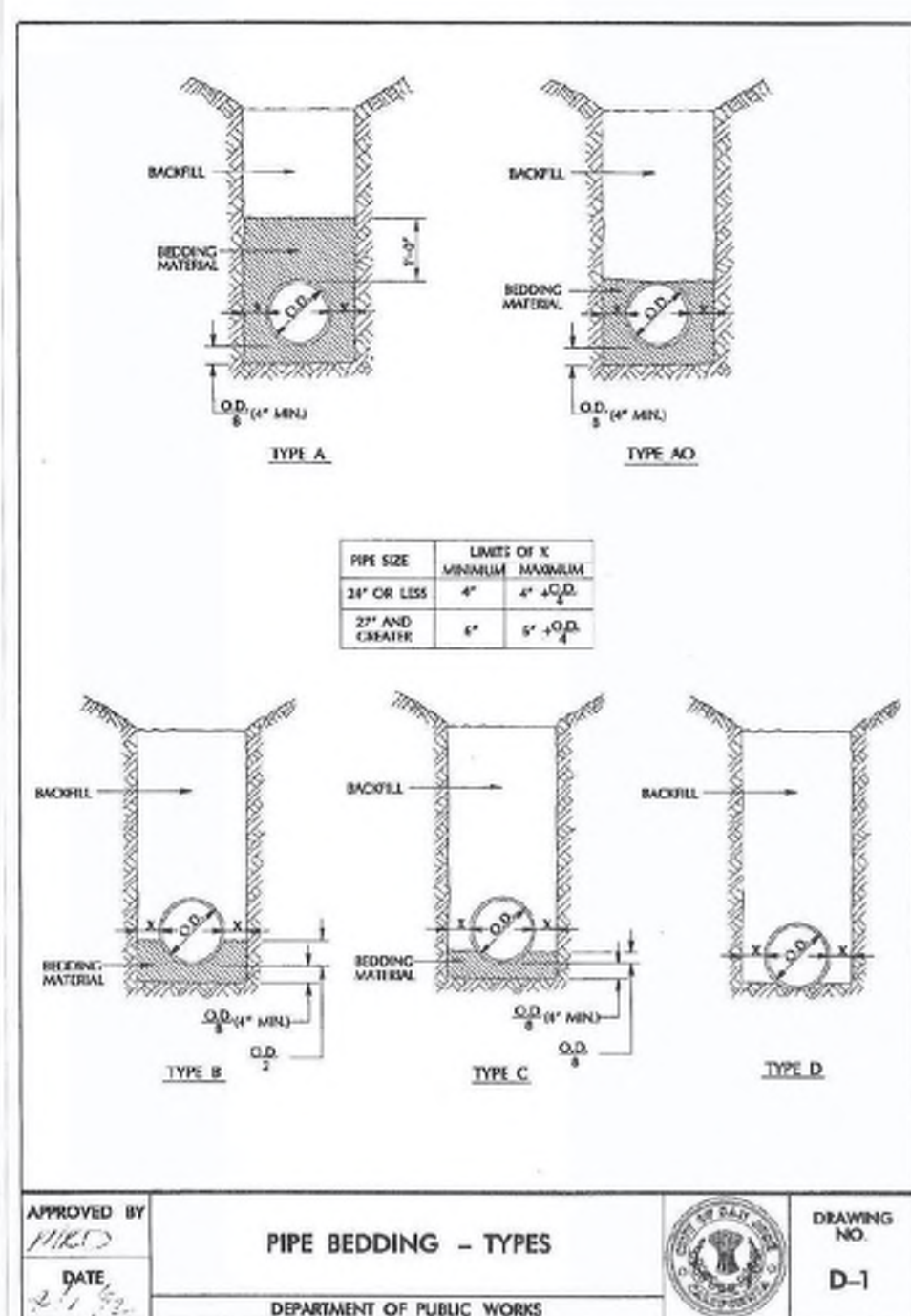
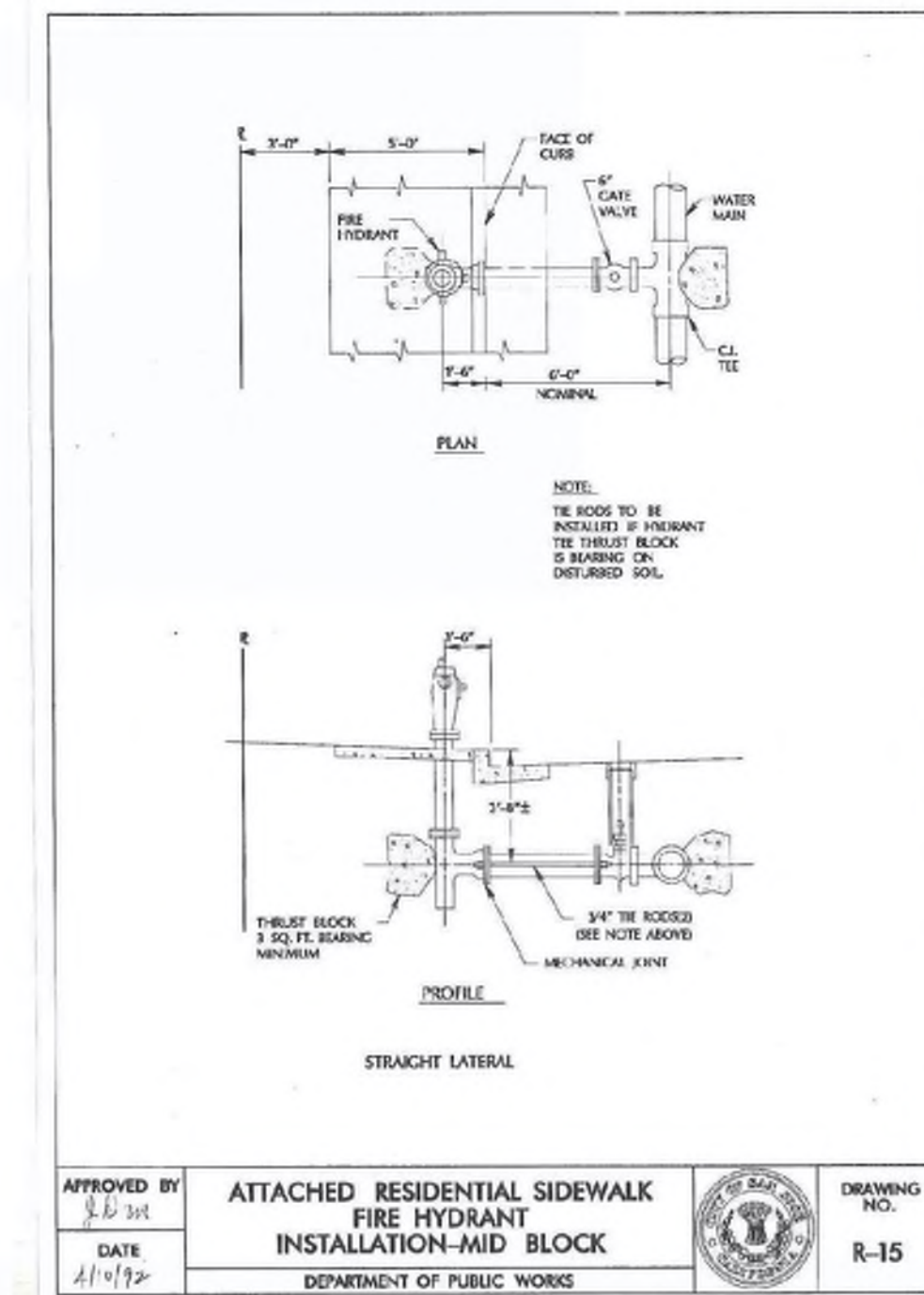
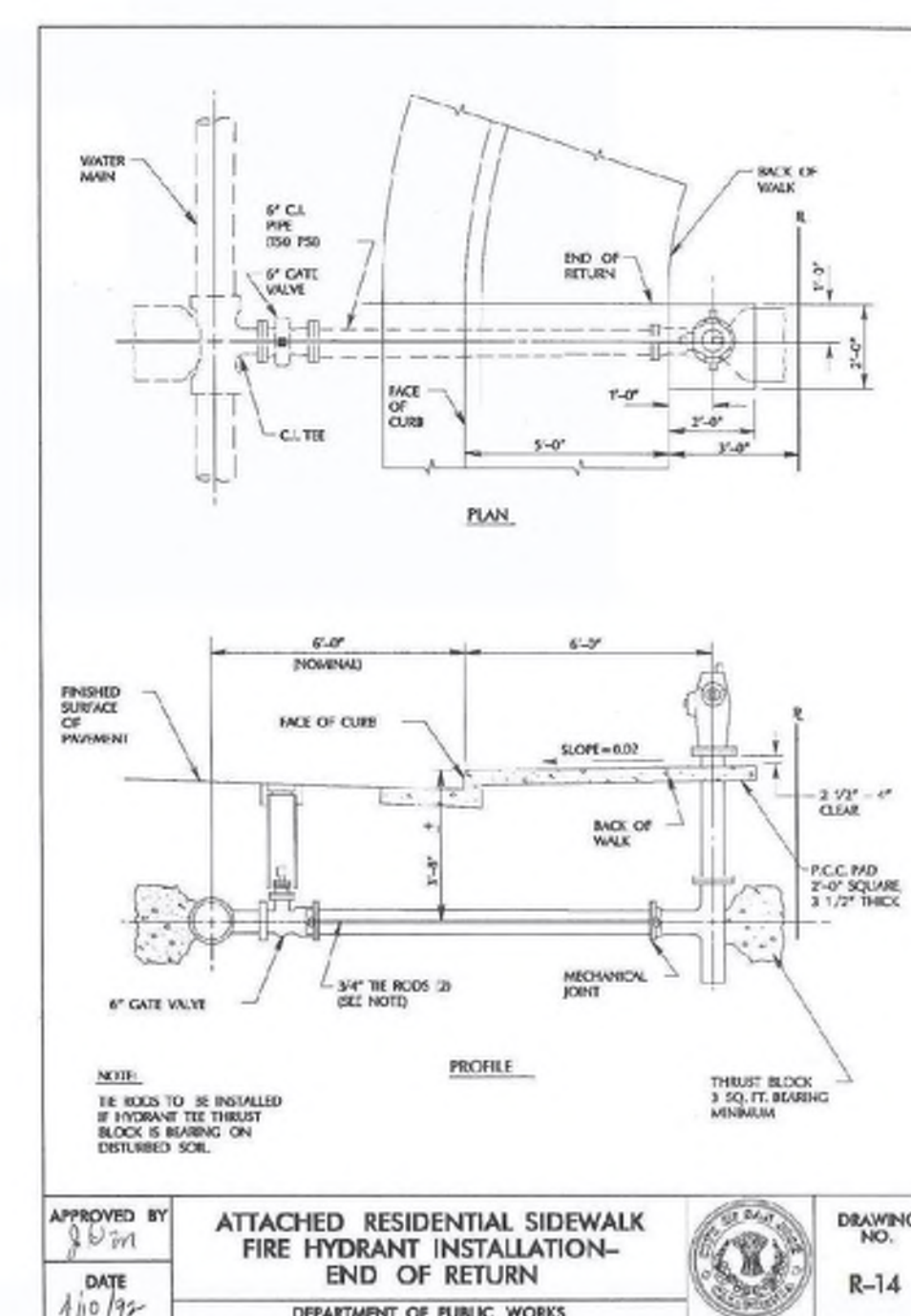
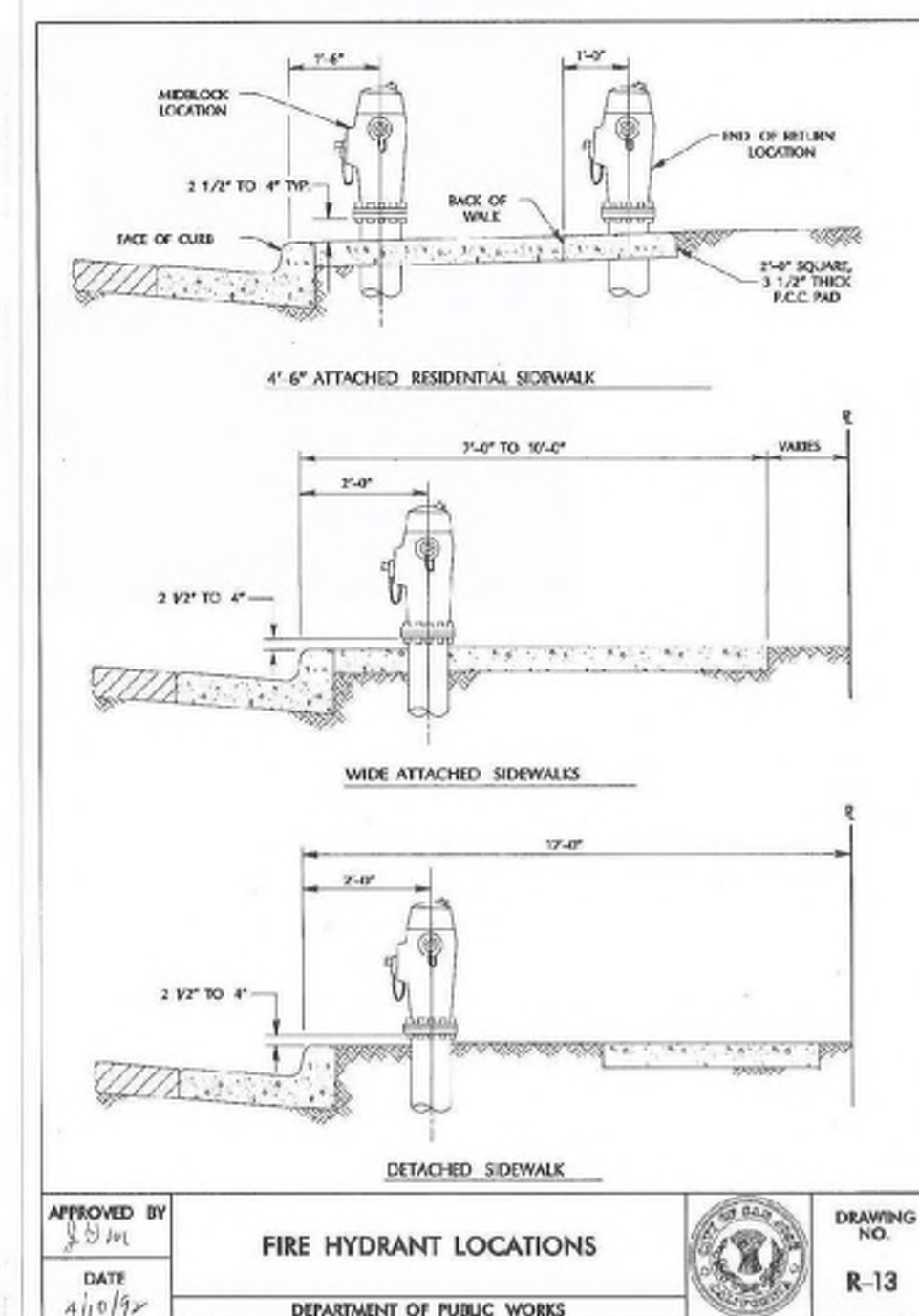
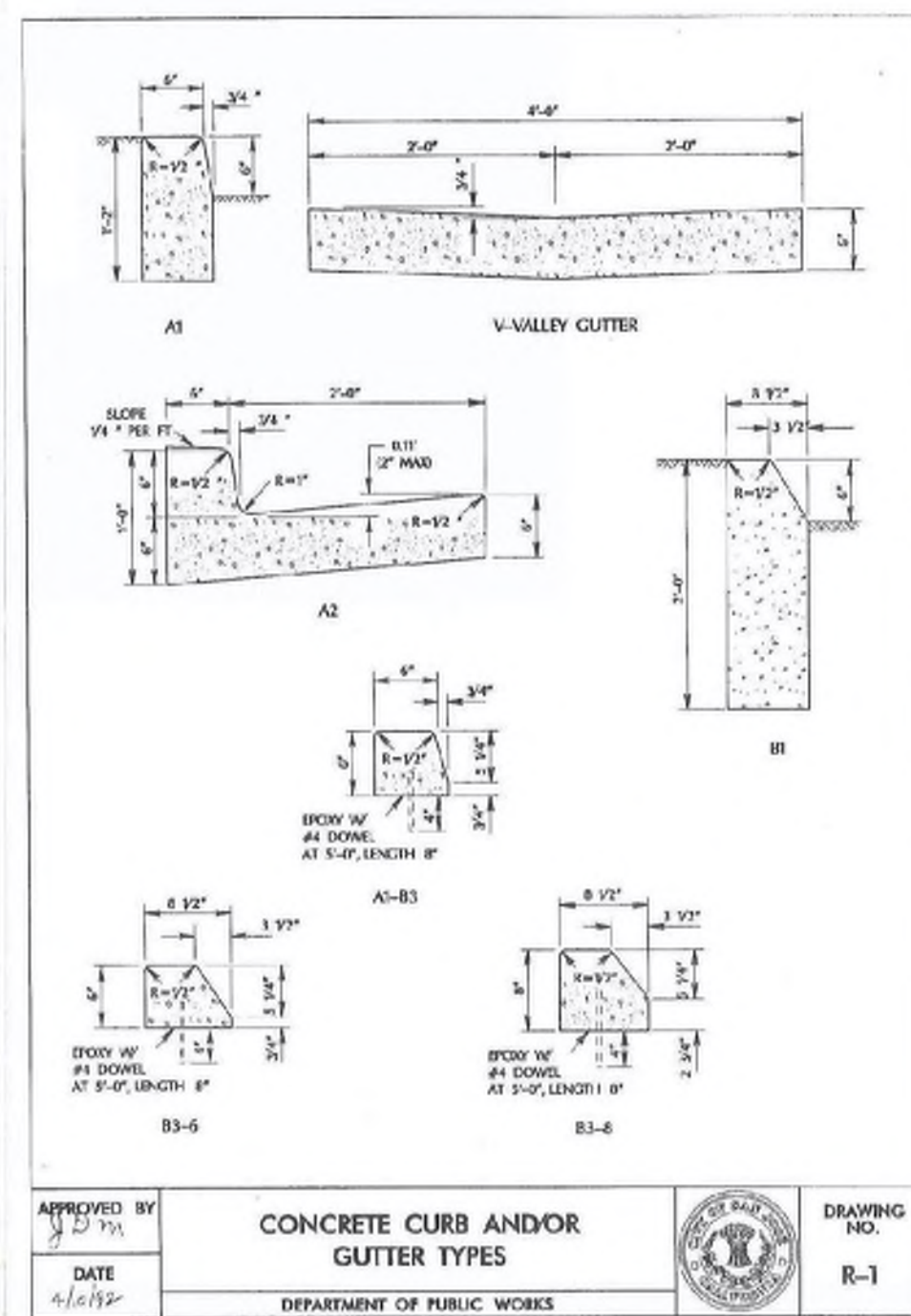
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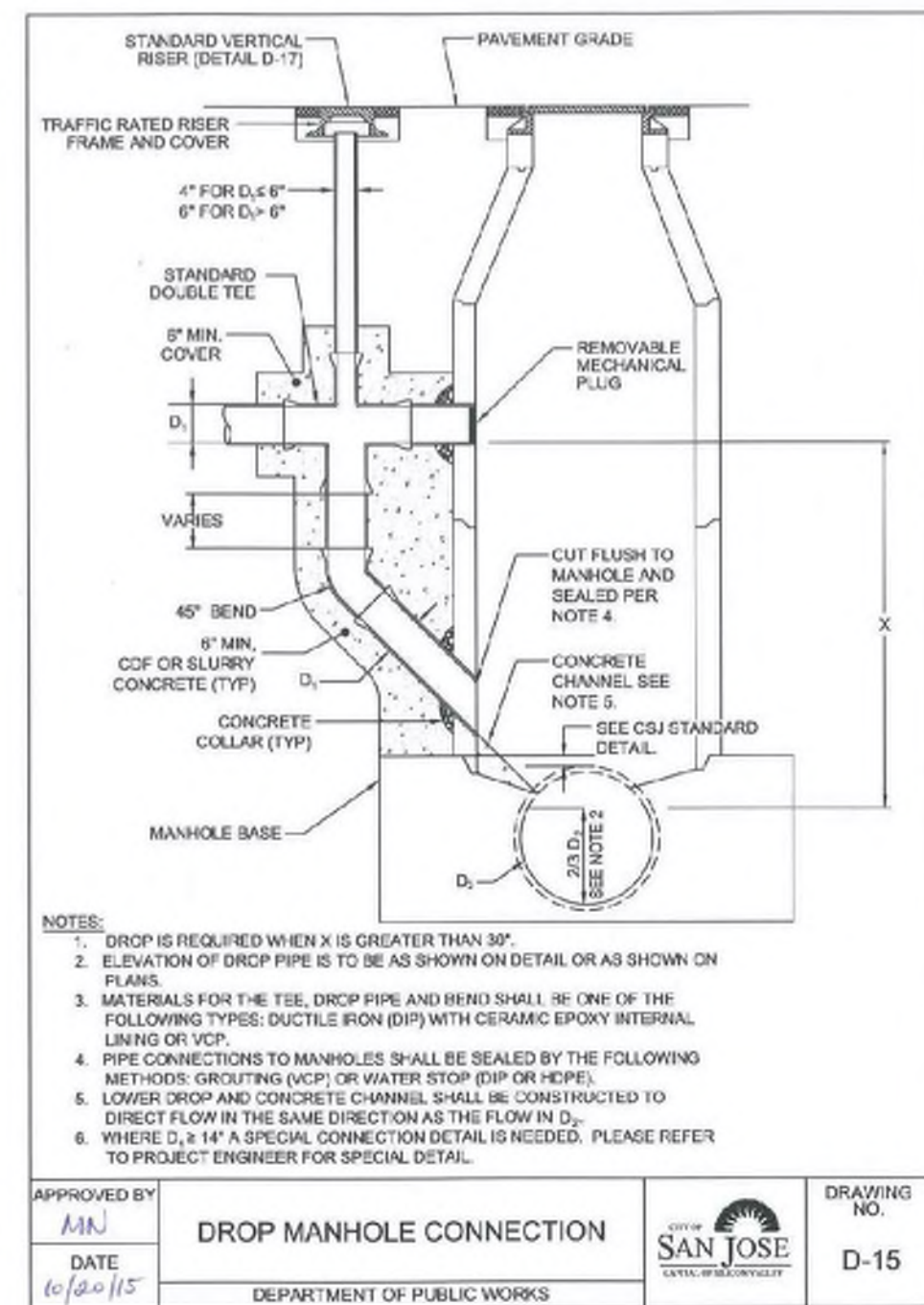
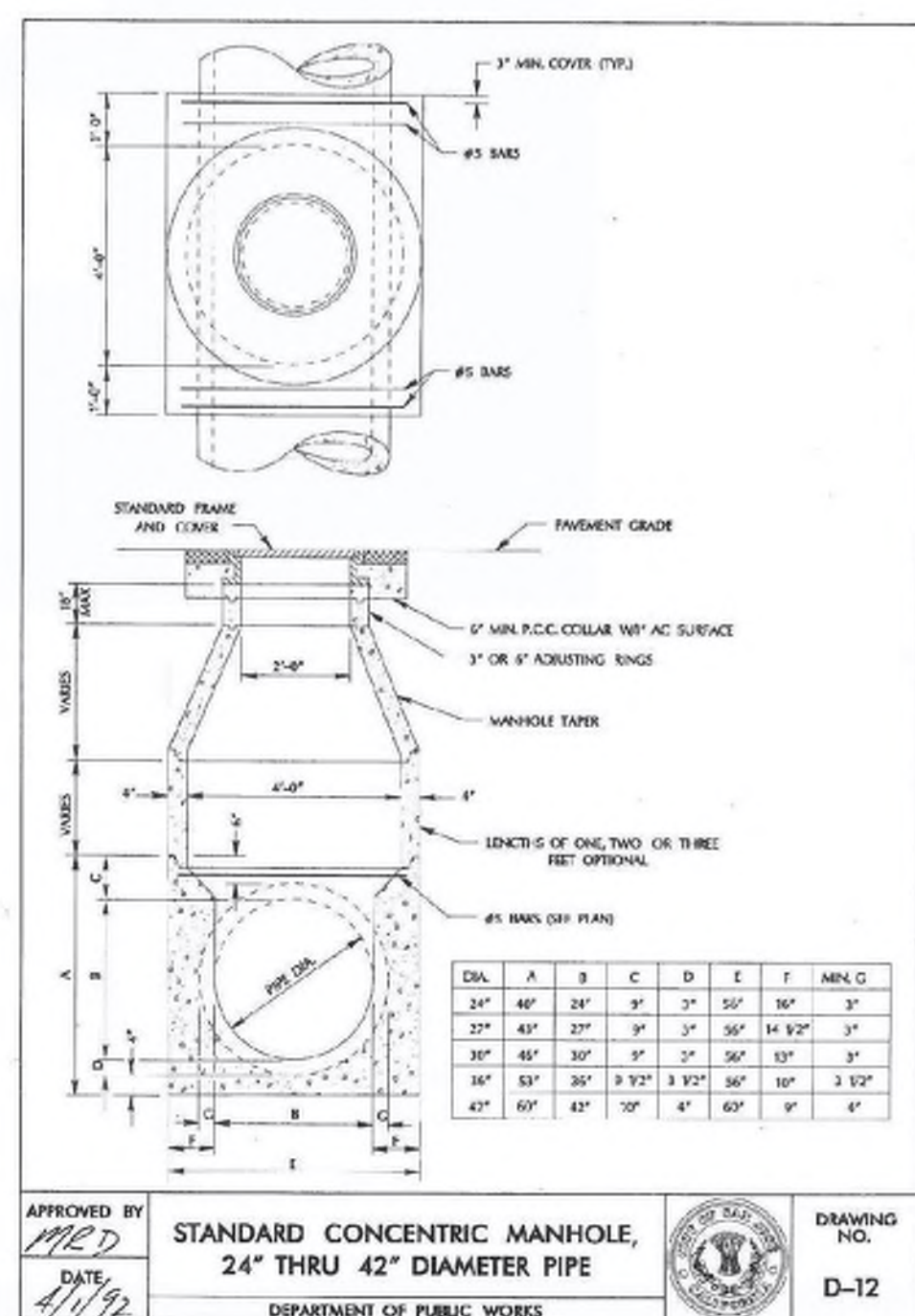
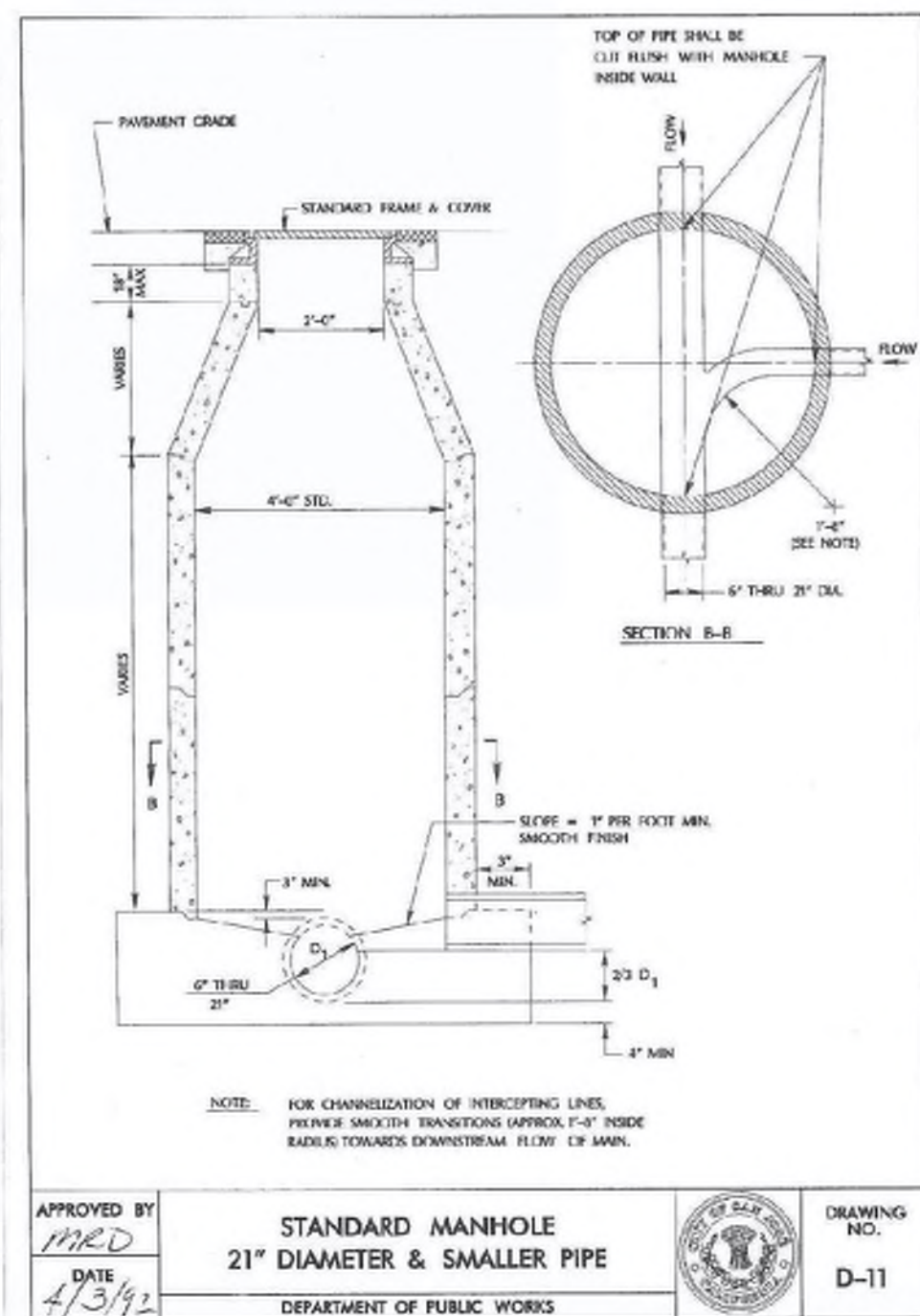
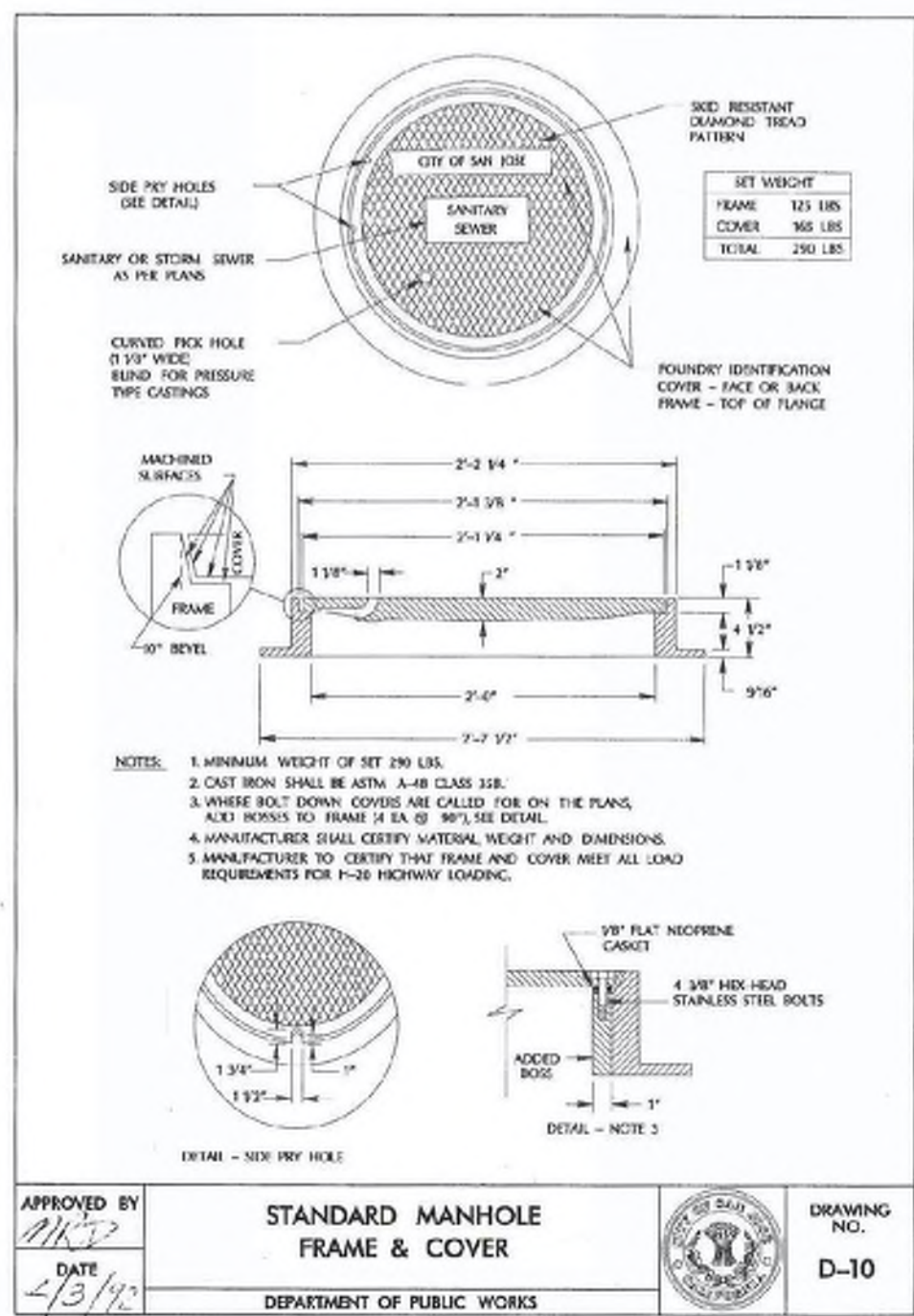
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NO	DATE	DESCRIPTION
PROJECT NO: 18-077		
CAD DWG FILE: C-5.0 DETAILS DWG		
DESIGNED BY: AG		
DRAWN BY: CQ		
CHECKED BY: BB		
DATE: 07 OCTOBER 2020		
SCALE:		
SHERWOOD DESIGN ENGINEERS		

CITY OF SAN  
JOSE DETAILS

## C5.4







INFRASTRUCTURE PLANS

DOWNTOWN WEST

San Jose, California

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CITY OF SAN JOSE DETAILS

C5.5



# CONCEPTUAL Stormwater Evaluation Form

FILE #

**INSTRUCTIONS:** At minimum, complete Sections 1.a and 2.d of this form and submit it with all Planning Permit applications.

If you answer "yes" to one or both questions below, your project must comply with Provision C.3 of the Municipal Regional Stormwater Permit (MRP) and you must complete the entire form:

- Does your project create or replace 10,000 sq. ft. or more of impervious surface on the project site?
- Does your project involve a restaurant, auto service facility, retail gasoline outlet, uncovered parking lot, or top uncovered portion of a parking structure that creates or replaces 5,000 sq. ft. or more of impervious surface on a project site?

**What is an impervious surface?** An impervious surface is pavement or other surface covering that prevents land from absorbing and infiltrating rainfall and stormwater. Impervious surfaces include driveways, walkways, parking lots, rooftops and any other continuous watertight covering. Pervious pavement underlain with pervious soil or material, e.g., drain rock, that infiltrates rainfall at a rate equal to or greater than surrounding unpaved areas OR that stores and infiltrates the water quality design volume specified in Provision C.3.d of the MRP, is not considered an impervious surface.

For more information and definitions, see the [Stormwater Management](http://www.sanjoseca.gov/planning) web page at [www.sanjoseca.gov/planning](http://www.sanjoseca.gov/planning).

## 1. USES AND LOCATION

### 1.a. Are any of these uses included in your project?

Check all that apply.

- ☒ Restaurant
- ☐ Retail Fuel Outlet
- ☒ Uncovered Parking
- ☐ Auto Service, as categorized by the Standard Industrial Classification (SIC) Codes 5013-5014, 5541, 7532-7534, 7536-7539. Determine your SIC Codes at [www.osha.gov](http://www.osha.gov). List the applicable SIC Code/s: \_\_\_\_\_

### 1.b. Check the watershed in which your project is located.

See the [Watershed Maps](http://www.sanjoseca.gov/index.aspx?nid=1868) web page at [www.sanjoseca.gov/index.aspx?nid=1868](http://www.sanjoseca.gov/index.aspx?nid=1868)

- ☐ Baylands
- ☐ Calabazas
- ☐ Coyote (including Lower Penitencia)
- ☒ Guadalupe
- ☐ San Tomas

### 1.c. Special Project Status

Use the online [Special Project Worksheet](http://www.sanjoseca.gov/index.aspx?NID=1761) at [www.sanjoseca.gov/index.aspx?NID=1761](http://www.sanjoseca.gov/index.aspx?NID=1761) to determine if your project qualifies as a Special Project. Does your project qualify?

- ☐ Yes **Attach the Special Project Worksheet and Narrative to this application.**
- ☒ No

Note: See the [Special Projects Worksheet](http://www.sanjoseca.gov/index.aspx?NID=1761) for requirements.

continued>



**2. AREA DATA**

2.a. Enter the Project Phase Number (1, 2, 3, etc. or N/A if Not Applicable):	N/A	
2.b. Total area of site:	79.26	acres
2.c. Total area of site that will be disturbed:	79.26	acres

**COMPARISON OF IMPERVIOUS AND PERVIOUS AREAS AT PROJECT SITE:**

2.d. IMPERVIOUS AREAS - IA	Pre-Project Existing IA (sq. ft.)	Existing IA Retained As-Is <sup>1</sup> (sq. ft.)	Existing IA Replaced with IA <sup>2</sup> (sq. ft.)	New IA Created <sup>2</sup> (sq. ft.)	Total Post Project IA (sq. ft.)
<b>Site Totals</b>					
Total IA	d.1. 2,539,289	d.2. 0	d.3. 2,398,730	d.4. 0	d.5. (d.2+d.3+d.4) 2,398,730
Total New and Replaced IA			d.6 (d.3+d.4) 2,398,730		
<b>Public Street Totals</b>					
Total Public Streets IA <sup>3</sup>	d.8 806,788	d.9 0	d.10 698,049	d.11 0	d.12 (d.9+d.10+d.11) 698,049
Total New and Replaced Public Streets IA			d.13 (d.10+d.11) 698,049		
Total Site and Public Streets IA	d.14 (d.1+d.8) 3,346,077				d.15 (d.5+d.12) 3,096,779
Percent Replacement of IA in Redevelopment Projects (d.3÷d.1) x 100:					d.16 94.5 %
2.e. PERVIOUS AREAS - PA	Pre-Project Existing PA (sq. ft.)				Total Post Project PA (sq. ft.)
Total PA <sup>4</sup>	e.1. 106,441				e.2 355,739
2.f. Total Area (IA + PA)	f.1. (d.14 + e.1) 3,452,518				f.2. (d.15 + e.2) 3,452,518

**FOOTNOTES**

1. "Retained" in box 2.d.2 means to leave existing IA in place. An IA that goes through maintenance (e.g., pavement resurfacing/slurry seal/grind), but no change in grade is considered "retained."
2. The "replaced" and "new" IA in boxes 2.d.3. and 2.d. 4 are based on the total area of the site and not specific locations on site. For example, impervious parking created over a pervious area is not "new" IA if an equal amount of pervious area replaces IA somewhere else on the site. Constructed IA on a site that does not exceed the Total Pre-Project IA in box 2.d.1. will be considered "replaced" IA.  
**A site will have "new" IA only if the Total Post-Project IA in box 2.d.5. exceeds the Total Pre-Project IA (2.d.5 - 2.d.1 = 2.d.4).**
3. These areas are locations of the public street that are being dedicated (sidewalk or street easement) to the City of San José.
4. Include bioretention areas, infiltration areas, green roofs, and pervious pavement in PA calculations.

**3. APPLICABILITY OF PROVISION C.3**

<b>3.a. Is 2.c. equal to 1 acre or more?</b> <input checked="" type="checkbox"/> Yes. Applicant must obtain coverage under the <a href="#">State Construction General Permit</a> . <input type="checkbox"/> No. Applicant does not need coverage under the State Construction General Permit.
<b>3.b. Is box 2.d.6 equal to 10,000 sq. ft. or more for any type of project, or 5,000 sq. ft. or more for restaurants, auto service facilities, retail gas outlets, and uncovered parking?</b> <input checked="" type="checkbox"/> Yes. Site Design, Source Control, and Treatment System requirements will all apply to the project area. <input type="checkbox"/> No. Site Design and Source Control requirements may apply; check with local agency.
<b>3.c. Is box 2.d.16 equal to or greater than 50%?</b> <input checked="" type="checkbox"/> Yes. Site Design, Source Control, and Treatment System requirements all apply to the entire site. <input type="checkbox"/> No. Site Design, Source Control, and Treatment System requirements only apply to the area of site that is disturbed.

continued&gt;



**3.d. Indicate the Provision C.3 measures to be applied to your project. Check all that apply:**

SITE DESIGN MEASURES	SOURCE CONTROL MEASURES	TREATMENT SYSTEMS
<b>PROTECTION MEASURES</b> <input checked="" type="checkbox"/> Protect existing trees, vegetation, and soil. <input checked="" type="checkbox"/> Protect riparian and wetland areas/buffers (Riparian setback. _____ft.) <sup>1</sup> <input type="checkbox"/> Preserve open space and natural drainage patterns: _____ sq. ft. <input type="checkbox"/> Rainwater harvesting and use (e.g., rain barrel, cistern connected to roof drains) <sup>2</sup>  <b>LANDSCAPE DESIGN MEASURES</b> <input checked="" type="checkbox"/> Direct runoff from roofs, sidewalks, patios to landscaped areas. <input checked="" type="checkbox"/> Plant trees adjacent to and in parking areas and adjacent to other impervious areas.  <b>DESIGN MEASURES TO MINIMIZE IMPERVIOUS SURFACE AREA</b> <input checked="" type="checkbox"/> Reduce existing impervious surfaces. <input checked="" type="checkbox"/> Cluster structures/pavement. <input type="checkbox"/> Create new pervious areas: <input checked="" type="checkbox"/> Landscaping <input type="checkbox"/> Parking stalls <input checked="" type="checkbox"/> Walkways and patios <input type="checkbox"/> Emergency vehicle access <input type="checkbox"/> Private streets and sidewalks <input checked="" type="checkbox"/> Install a Green Roof on all or a portion of the roof. <input checked="" type="checkbox"/> Parking: <input checked="" type="checkbox"/> On top of or under buildings <input checked="" type="checkbox"/> Not provided in excess of Code <input type="checkbox"/> Other: _____ _____ _____	<input checked="" type="checkbox"/> Beneficial landscaping <sup>4</sup> <input checked="" type="checkbox"/> Use water efficient irrigation systems. <input checked="" type="checkbox"/> Good housekeeping, e.g., sweep pavement and clean catch basin. <input checked="" type="checkbox"/> Label storm drains. <input checked="" type="checkbox"/> Connect to the sanitary sewer: <sup>3</sup> <input checked="" type="checkbox"/> Covered trash/recycling enclosures <input checked="" type="checkbox"/> Interior parking structures <input type="checkbox"/> Wash area/racks <input type="checkbox"/> Pools, spas, fountains <input checked="" type="checkbox"/> Covered loading docks and maintenance bays <input checked="" type="checkbox"/> Pumped groundwater <input type="checkbox"/> Fueling areas must (all required): – Be graded to prevent ponding. – Use a concrete surface. – Be separated from the site by a grade break to prevent run-on. – Have a canopy cover extending at least 10 feet from each pump. <input type="checkbox"/> Industrial, outdoor material storage, and recycling facilities must (all required): – Stockpile material on an impervious surface or under a permanent roof or covering. – Direct ponded water to the sanitary sewer, <sup>2</sup> an on-site treatment system, or off-site disposal. – Install berms or curbs to prevent runoff from the storage/processing areas. – Segregate pollutant-generating activities into a distinct drainage management area and provide treatment. <input type="checkbox"/> Other: _____ _____ _____	<b>NONE</b> <input checked="" type="checkbox"/> Impervious surfaces drain to one or more self-retaining areas that are sized per the design criteria listed in the C.3 Stormwater Handbook.  <b>LID TREATMENT</b> <input type="checkbox"/> Rainwater harvest and use (e.g., cistern or rain barrel sized for C.3.d treatment) <input type="checkbox"/> Infiltration well/dry well <input type="checkbox"/> Infiltration trench <input type="checkbox"/> Subsurface Infiltration System (e.g. vault or large diameter pipe over drain rock)  <b>BIOTREATMENT</b> <input checked="" type="checkbox"/> Bioretention area <input checked="" type="checkbox"/> Flow-through planter <input type="checkbox"/> Tree well filter or trench with bioretention soils <sup>5</sup> <input type="checkbox"/> Other: _____ _____ <b>OTHER TREATMENT METHODS</b> <b>SPECIAL PROJECTS ONLY<sup>6</sup></b> <input type="checkbox"/> Proprietary tree box filter <input type="checkbox"/> Media filter (sand, compost, or proprietary media) <b>MULTI-STEP PROCESS ONLY<sup>7</sup></b> <input type="checkbox"/> Vegetated filter strip <input type="checkbox"/> Extended Detention Basin <input type="checkbox"/> Vegetated Swale

**FOOTNOTES**

1. Per Council Policy 6-34, setback is measured from the outside dripline of the Riparian Corridor vegetation or top-of-bank, whichever is greater.

2. As a site design measure, it does not have to be sized to comply with Provision C.3.d treatment requirements.

3. Subject to the requirements of the sanitary sewer authority.

4. Landscaping that minimizes irrigation and runoff, promotes surface infiltration where possible, and minimizes the use of pesticides and fertilizers.

5. Bioretention soils shall infiltrate runoff at a minimum of 5 inches per hour during the life of the facility and sustain healthy, vigorous plant growth.

6. These treatment measures are only allowed if the project qualifies as a Special Project.

7. These treatment measures are only allowed as part of a multi-step treatment process (i.e. pretreatment).

continued&gt;



**4. TREATMENT SYSTEM SIZING FOR PROJECTS WITH TREATMENT REQUIREMENTS**

For each treatment system component, indicate the hydraulic sizing criteria used and provide the calculated design flow or volume to be treated:

Treatment System Component	Hydraulic Sizing Criteria <i>Enter numbers from Table below</i>	Design Flow or Volume cfs or cu.ft.
Bioretention	2c - Simplified Method	

**CODING TABLE FOR HYDRAULIC SIZING CRITERIA**

Enter the appropriate number in the above column

1a: Volume – WEF Method	2a: Flow – Factored Flood Flow Method	3: Combination Flow and Volume Design Basis
1b: Volume – CASQA BMP Handbook Method	2b: Flow – CASQA BMP Handbook Method	
	2c: Flow – Uniform Intensity Method	

**5. HYDROMODIFICATION MANAGEMENT (HM) APPLICABILITY**

**5.a. Does the project create and/or replace one acre or more of impervious surface AND create an increase in total impervious surface from the pre-project condition (from page 2, is 2d.5 > 2d.1 AND 2d.6 is ≥ one acre)?**

- ☐ Yes. Continue to Question 5.b.  
☒ No. Project is exempt from Hydromodification Management.

**5.b. Is the project located in the green “Subwatersheds less than 65% Impervious” area on the [HM Applicability Map](#)?**

- ☐ Yes. Project must implement HM requirements. Continue to Question 5.c.  
☒ No. Project is exempt from Hydromodification Management.

**5.c. If Yes to 5.b, select the specific flow duration controls for Hydromodification Management.**

Check all that apply:

- ☐ Extended Detention Basin  
☐ Underground tank or vault  
☐ Bioretention with outlet control  
☐ Other: \_\_\_\_\_

**6. OPERATION & MAINTENANCE (O&M) CONTACT INFORMATION**

Please enter the contact information of the Responsible Party for Stormwater Treatment/Hydromodification Control O&M:

NAME	MAILING ADDRESS		EMAIL/PHONE
<b>RESPONSIBLE PARTY IN CHARGE OF O&amp;M</b>	STREET:		EMAIL:
NAME:	CITY:	ZIP:	PHONE:
<b>FIRM NAME</b> IF ANY:			

**7. FORM COMPLETED BY**

Alyson Goulden

9/15/2020

PRINT NAME

DATE

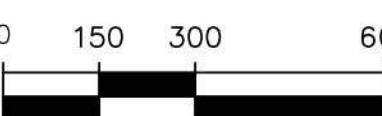








JT-B.1 JOINT TRENCH TITLE SHEET  
JT-B.2 OVERALL  
JT-B.3 THRU B.20 JOINT TRENCH INTENT



# RADIUS

UTILITY DESIGN CONSULTANTS & ENGINEERS  
1460 MARIA LANE, SUITE 420, WALNUT CREEK, CA 94596  
Tel (925) 269-4575

PROJECT NUMBER:  
20-1072

SCALE:  
1" = 300'

PROJECT MANAGER:  
SCOTT HARDESTER

HENRY NGUYEN

CHECKED BY: CRAIG BURTON

LAST UPDATED:  
10-07-2020

DRAWING NUMBER:  
**IT-B 2**

SHEET: 2 OF: 20



UTILITIES  
PLEASE CONFIRM  
TIE IN LOCATIONS

1-PRELIMINARY-  
NOT FOR CONSTRUCTION

THIS IS NOT A BID DOCUMENT  
THIS DRAWING HAS NOT YET BEEN REVIEWED BY  
UTILITY COMPANIES AND IS SUBJECT TO CHANGE.

NOTE TO CONTRACTOR:  
FOR CONTRACTOR'S WORK RESPONSIBILITY,  
REFER TO JOINT TRENCH TITLE SHEET (JT-B.1)

LEGEND:

NEW		DESCRIPTION	
JT	=====	JOINT TRENCH	
<u>EXISTING</u>		<u>DESCRIPTION</u>	
OH	—	OH	OVERHEAD LINES
E	—	E	ELECTRIC LINES
G	—	G	GAS LINES
ATT	—	ATT	AT&T LINES
C	—	C	CATV LINES
FO	—	FO	FIBER OPTIC LINES
JP	●	JP	JOINT POLE
PMT	▲	PMT	POLE-MOUNTED TRANSFORMER
DL	✱	DL	DECORATIVE LIGHT
SL	⚡	SL	STREET LIGHT
TS	⚡	TS	TRAFFIC SIGNAL LIGHT
OH	—X—	OH	EXISTING OVERHEAD LINE TO BE REMOVED
E	—X—	E	EXISTING ELECTRIC LINE TO BE REMOVED/RELOCATED
G	—X—	G	EXISTING GAS LINE TO BE REMOVED/RELOCATED
ATT	—X—	ATT	EXISTING PHONE LINE TO BE REMOVED/RELOCATED
FO	—X—	FO	EXISTING FIBER OPTIC LINE TO BE REMOVED/RELOCATED
JP	●X	JP	EXISTING JOINT POLE TO BE REMOVED
PMT	▲X	PMT	EXISTING POLE-MOUNTED TRANSFORMER TO BE REMOVED

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CALIFORNIA

**JOINT TRENCH INTENT**

**DOWNTOWN WEST**  
San Jose, California

**SAN JOSE**

**RADIUS**  
**DESIGN LLC**

UTILITY DESIGN CONSULTANTS & ENGINEERS  
1460 MARIA LANE, SUITE 420, WALNUT CREEK, CA 94596  
Tel (925) 269-4575

PROJECT NUMBER: <b>20-1072</b>	
SCALE: <b>1" = 40'</b>	
PROJECT MANAGER: <b>SCOTT HARDESTER</b>	
DRAWN BY: <b>HENRY NGUYEN</b>	
CHECKED BY: <b>CRAIG BURTON</b>	
EST DATED: <b>10-07-2020</b>	
DRAWING NUMBER: <b>JT-B.3</b>	
EET: <b>3</b>	OF: <b>20</b>

DRAWING NAME: j:\dropbox\projects\2020\20-1072 diridon\radius work\ms 20-1072-ji-b1.dwg  
PLOT DATE: Wednesday, September 2, 2020 2:56:34 PM  
PLOTTED BY: HENRY

NOTE TO COMCAST:  
PLEASE CONFIRM WHO WILL PROVIDE CONDUIT AND  
VAULTS. DEVELOPER TO PROVIDE TRENCH.

REFER TO PG&E UTILITY BULLETIN TD-7001B-005  
DOCUMENT FOR SMART METER ANTENNA  
CONSTRUCTION REQUIREMENTS.

SUBSTRUCTURE LOCATIONS MUST BE STAKED BY A  
LICENSED SURVEYOR PRIOR TO CONSTRUCTION.  
SEE CONSTRUCTION NOTES ON JOINT TRENCH TITLE  
SHEET (JT-B.1) REGARDING EXISTING CONDITIONS.

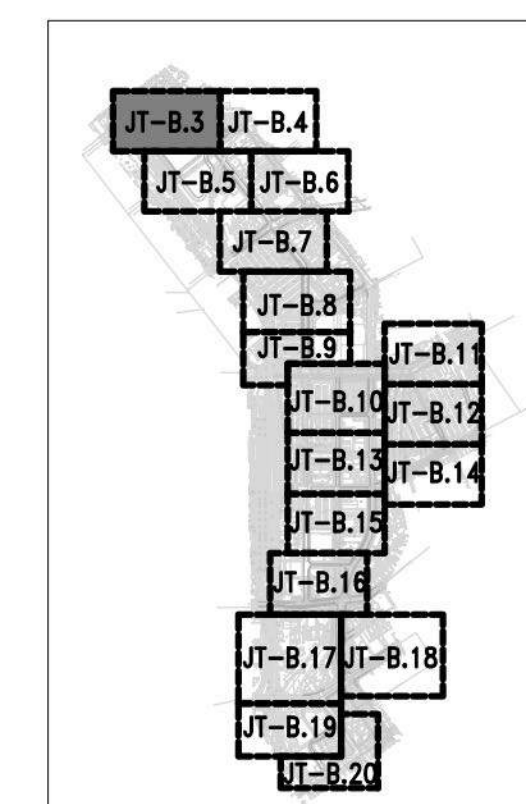
**NOTE FOR UNDERGROUND ELECTRIC INSTALLATION:**  
USE OF PVC DB-120 IS NO LONGER APPROVED BY  
PG&E FOR ANY CONDUIT SIZES, BENDS, AND  
FITTINGS. RIGID PVC SCHEDULE 40 MUST BE USED  
IN PLACE OF PVC DB-120 CONDUIT. FOR ALL  
APPROVED CONDUITS, BENDS, AND FITTINGS, SEE  
PG&E BULLETIN TD-062288-B006.

MATCH LINE - SEE SHEET JT-B.4

MATCH LINE - SEE SHEET JT-B.5

**NEW TRENCH WITHIN 3' OF-  
DRY UTILITIES**

EXISTING ELECTRIC BOX.  
LOCATION APPROX.

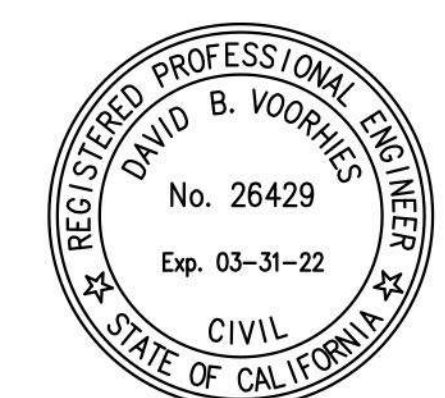
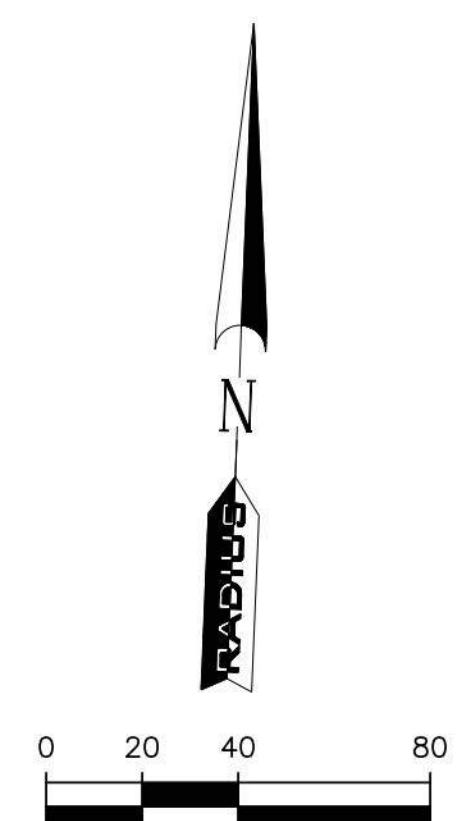


SHEET INDEX MAP  
N. T. S.

SHEET INDEX

SHEET INDEX

JT-B.1	JOINT TRENCH TITLE SHEET
JT-B.2	OVERALL
JT-B.3 THRU B.20	JOINT TRENCH INTENT





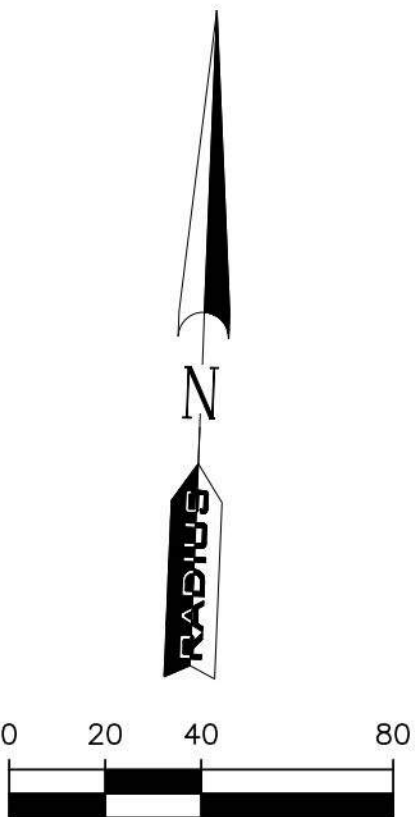
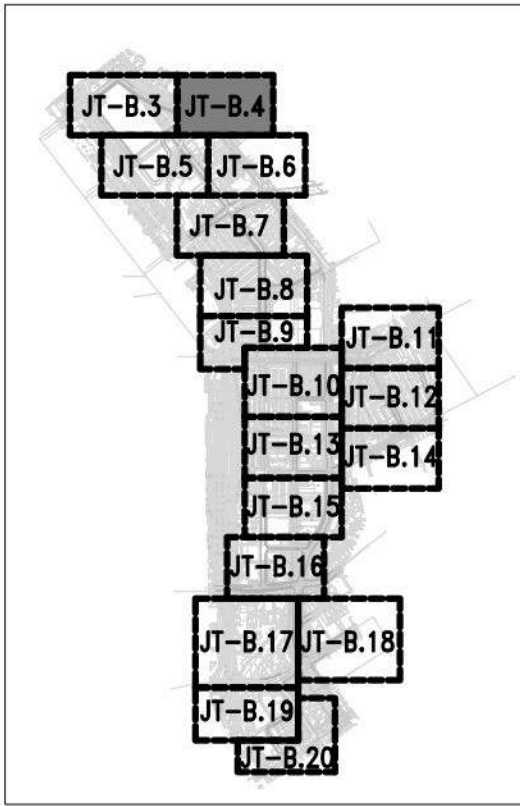
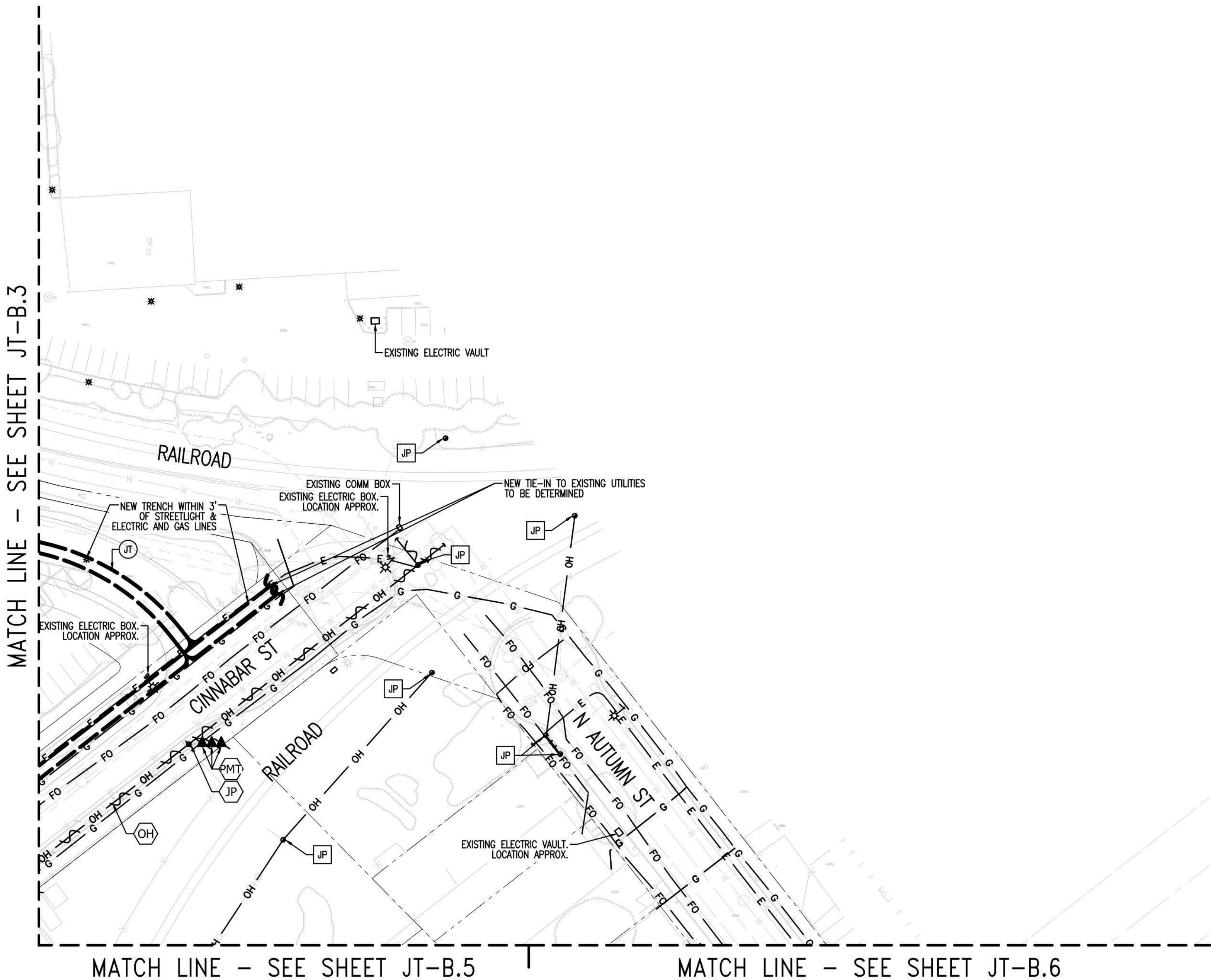
UTILITIES  
PLEASE CONFIRM  
TIE IN LOCATIONS

—PRELIMINARY—  
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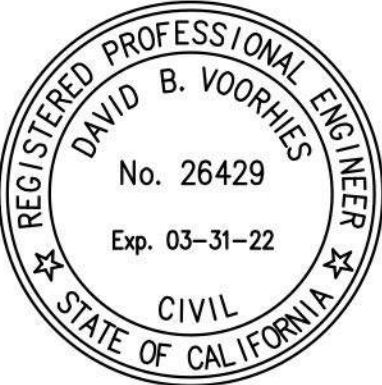
NOTE TO CONTRACTOR:  
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REFER TO JOINT TRENCH TITLE SHEET (JT-B.1)

LEGEND:	
NEW	DESCRIPTION
④	JOINT TRENCH
EXISTING	DESCRIPTION
OH	OVERHEAD LINES
E	ELECTRIC LINES
G	GAS LINES
ATT	AT&T LINES
C	CATV LINES
FO	FIBER OPTIC LINES
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SHEET INDEX MAP  
N. T. S.

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REFER TO PG&E UTILITY BULLETIN TD-7001B-005  
DOCUMENT FOR SMART METER ANTENNA  
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APPROVED CONDUITS, BENDS, AND FITTINGS, SEE  
PG&E BULLETIN TD-062288-B006.

DATE:	
REVISION:	
DELTA NO:	

CALIFORNIA

JOINT TRENCH INTENT  
DOWNTOWN WEST  
San Jose, California

SAN JOSE

**RADIUS DESIGN**  
UTILITY DESIGN CONSULTANTS & ENGINEERS  
1460 MARIA LANE, SUITE 420, WALNUT CREEK, CA 94596  
Tel (925) 269-4575

PROJECT NUMBER:  
20-1072  
SCALE:  
1" = 40'  
PROJECT MANAGER:  
SCOTT HARDESTER  
DRAWN BY:  
HENRY NGUYEN  
CHECKED BY:  
CRAIG BURTON  
LAST UPDATED:  
10-07-2020  
DRAWING NUMBER:  
JT-B.4  
SHEET: 4 OF: 20



UTILITIES  
PLEASE CONFIRM  
TIE IN LOCATIONS

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LEGEND:

NEW		DESCRIPTION	
JT	=====	JOINT TRENCH	
EXISTING		DESCRIPTION	
OH	—— OH ——	OVERHEAD LINES	
E	—— E ——	ELECTRIC LINES	
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ATT	—— ATT ——	AT&T LINES	
C	—— C ——	CATV LINES	
FO	—— FO ——	FIBER OPTIC LINES	
JP	●	JOINT POLE	
PMT	▲	POLE-MOUNTED TRANSFORMER	
DL	✱	DECORATIVE LIGHT	
SL	⚡	STREET LIGHT	
TS	⚡	TRAFFIC SIGNAL LIGHT	
OH	⚡ OH ⚡	EXISTING OVERHEAD LINE TO BE REMOVED	
E	⚡ E ⚡	EXISTING ELECTRIC LINE TO BE REMOVED/RELOCATED	
G	⚡ G ⚡	EXISTING GAS LINE TO BE REMOVED/RELOCATED	
ATT	⚡ ATT ⚡	EXISTING PHONE LINE TO BE REMOVED/RELOCATED	
FO	⚡ FO ⚡	EXISTING FIBER OPTIC LINE TO BE REMOVED/RELOCATED	
JP	▲	EXISTING JOINT POLE TO BE REMOVED	
PMT	▲	EXISTING POLE-MOUNTED TRANSFORMER TO BE REMOVED	

DATE:

REVISION

DELTA NO:



CALIFORNIA

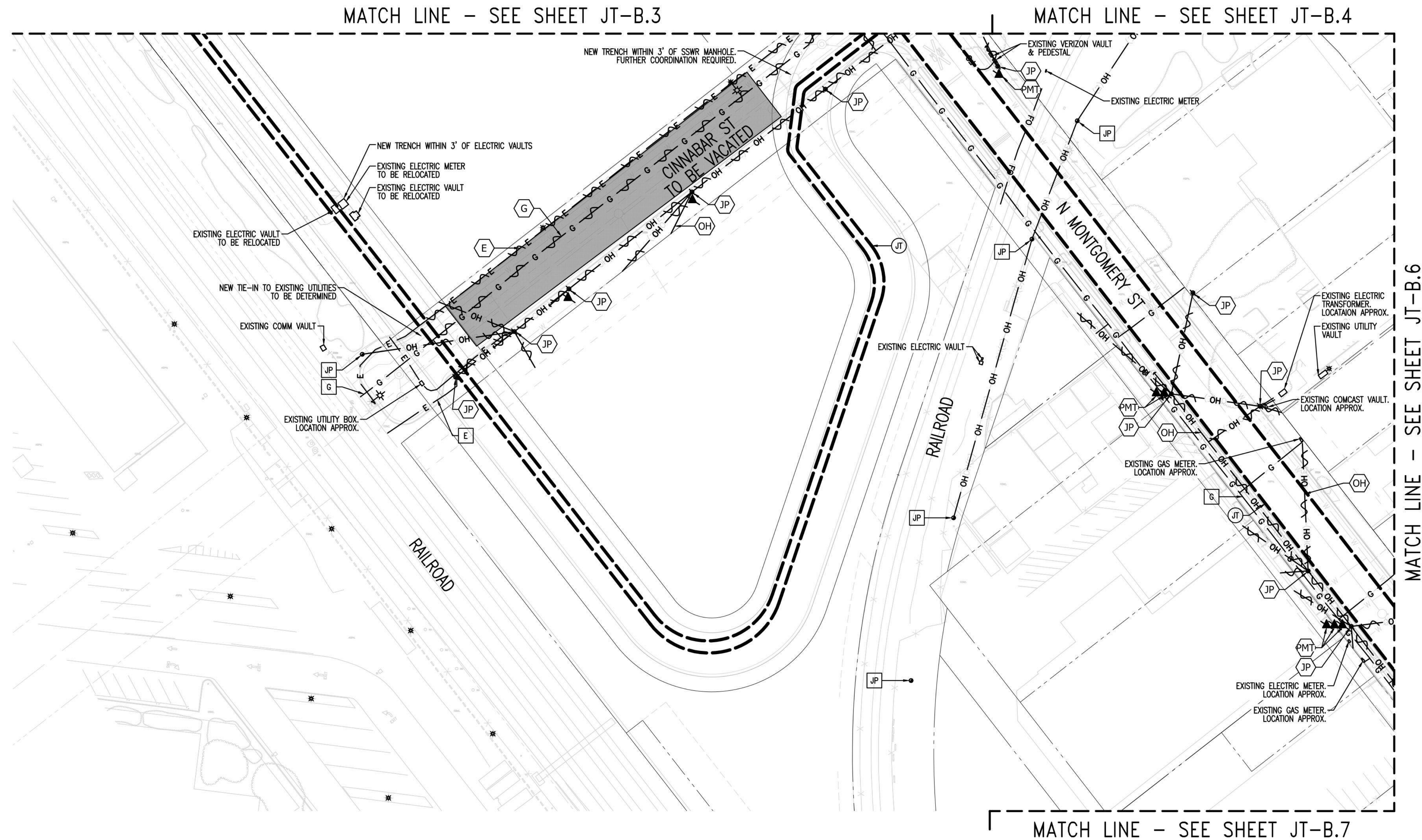
**JOINT TRENCH INTENT**  
**DOWNTOWN WEST**  
**San Jose, California**

SAN JOSE

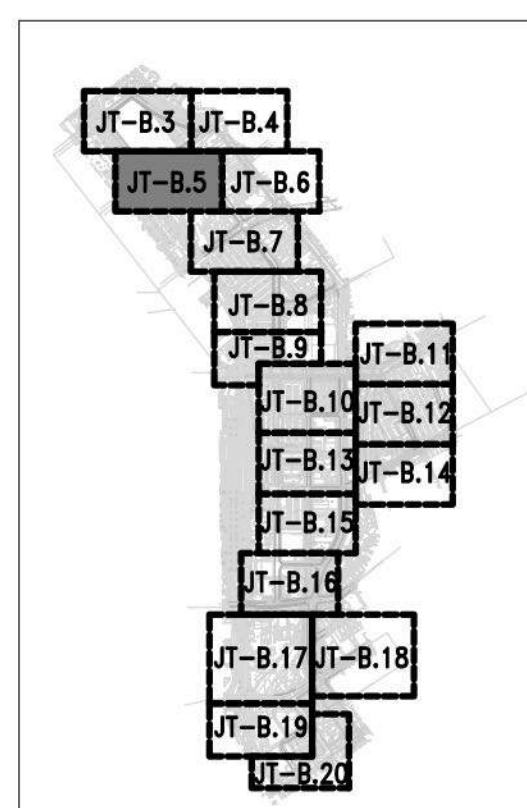
**RADIUS**  
**DESIGN LLC**

UTILITY DESIGN CONSULTANTS & ENGINEERS  
460 MARIA LANE, SUITE 420, WALNUT CREEK, CA 94596  
Tel (925) 269-4575

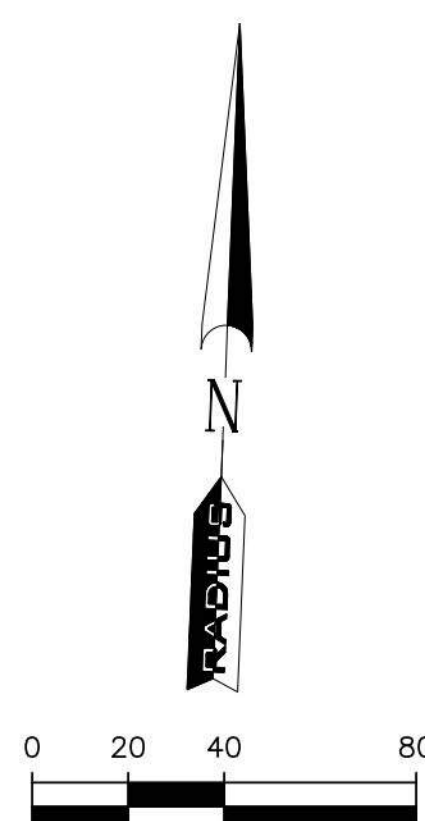
PROJECT NUMBER:	20-1072
SCALE:	1" = 40'
PROJECT MANAGER:	SCOTT HARDESTER
DRAWN BY:	HENRY NGUYEN
CHECKED BY:	CRAIG BURTON
LAST UPDATED:	10-07-2020
DRAWING NUMBER:	JT-B.5
SHEET:	5 OF 20



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MATCH LINE - SEE SHEET JT-B.6

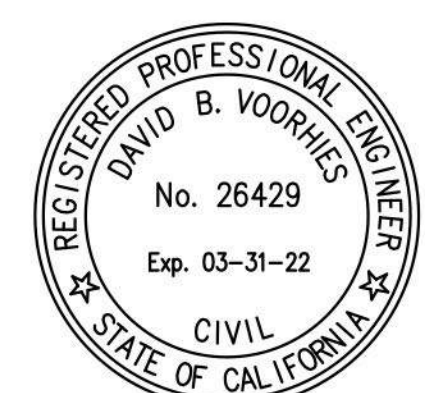


SHEET INDEX MAP  
N. T. S.



SHEET INDEX

JT-B.1 JOINT TRENCH TITLE SHEET  
JT-B.2 OVERALL  
JT-B.3 THRU B.20 JOINT TRENCH INTENT



NOTE TO COMCAST:  
PLEASE CONFIRM WHO WILL PROVIDE CONDUIT AND  
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SHEET (JT-B.1) REGARDING EXISTING CONDITIONS.

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PG&E BULLETIN TD-062288-B006.

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PLOT DATE: Wednesday, September 2, 2020 2:56:34 PM  
PLOTED BY: HENRY



PLEASE CONFIRM  
TIE IN LOCATIONS


–PRELIMINARY–  
NOT FOR CONSTRUCTION

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NOTE TO CONTRACTOR:  
FOR CONTRACTOR'S WORK RESPONSIBILITY,  
REFER TO JOINT TRENCH TITLE SHEET (JT-B.1)

**LEGEND:**

NEW		DESCRIPTION	
<div> <div> </div> <div> </div> </div>		JOINT TRENCH	
EXISTING		DESCRIPTION	
<div> <div> </div> <div> </div> </div>	OH	OVERHEAD LINES	
<div> <div> </div> <div> </div> </div>	E	ELECTRIC LINES	
<div> <div> </div> <div> </div> </div>	G	GAS LINES	
<div> <div> </div> <div> </div> </div>	ATT	AT&T LINES	
<div> <div> </div> <div> </div> </div>	C	CATV LINES	
<div> <div> </div> <div> </div> </div>	FO	FIBER OPTIC LINES	
<div> <div> </div> <div> </div> </div>	•	JOINT POLE	
<div> <div> </div> <div> </div> </div>	▲	POLE-MOUNTED TRANSFORMER	
<div> <div> </div> <div> </div> </div>	✱	DECORATIVE LIGHT	
<div> <div> </div> <div> </div> </div>	✱	STREET LIGHT	
<div> <div> </div> <div> </div> </div>	✱	TRAFFIC SIGNAL LIGHT	
<div> <div> </div> <div> </div> </div>	OH	EXISTING OVERHEAD LINE TO BE REMOVED	
<div> <div> </div> <div> </div> </div>	E	EXISTING ELECTRIC LINE TO BE REMOVED/RELOCATED	
<div> <div> </div> <div> </div> </div>	G	EXISTING GAS LINE TO BE REMOVED/RELOCATED	
<div> <div> </div> <div> </div> </div>	ATT	EXISTING PHONE LINE TO BE REMOVED/RELOCATED	
<div> <div> </div> <div> </div> </div>	FO	EXISTING FIBER OPTIC LINE TO BE REMOVED/RELOCATED	
<div> <div> </div> <div> </div> </div>	•	EXISTING JOINT POLE TO BE REMOVED	
<div> <div> </div> <div> </div> </div>	▲	EXISTING POLE-MOUNTED TRANSFORMER TO BE REMOVED	

	DELTA NO:	REVISION	DATE:

CALIFORNIA

**JOINT TRENCH INTENT**

**DOWNTOWN WEST**  
San Jose, California

SAN JOSE

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UTILITY DESIGN CONSULTANTS & ENGINEERS  
460 MARIA LANE, SUITE 420, WALNUT CREEK, CA 94598  
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PROJECT NUMBER:	20-1072
SCALE:	1" = 40'
PROJECT MANAGER:	SCOTT HARDESTER
DRAWN BY:	HENRY NGUYEN
CHECKED BY:	CRAIG BURTON
LAST UPDATED:	10-07-2020
DRAWING NUMBER:	JT-B.6
SHEET:	6 OF 20

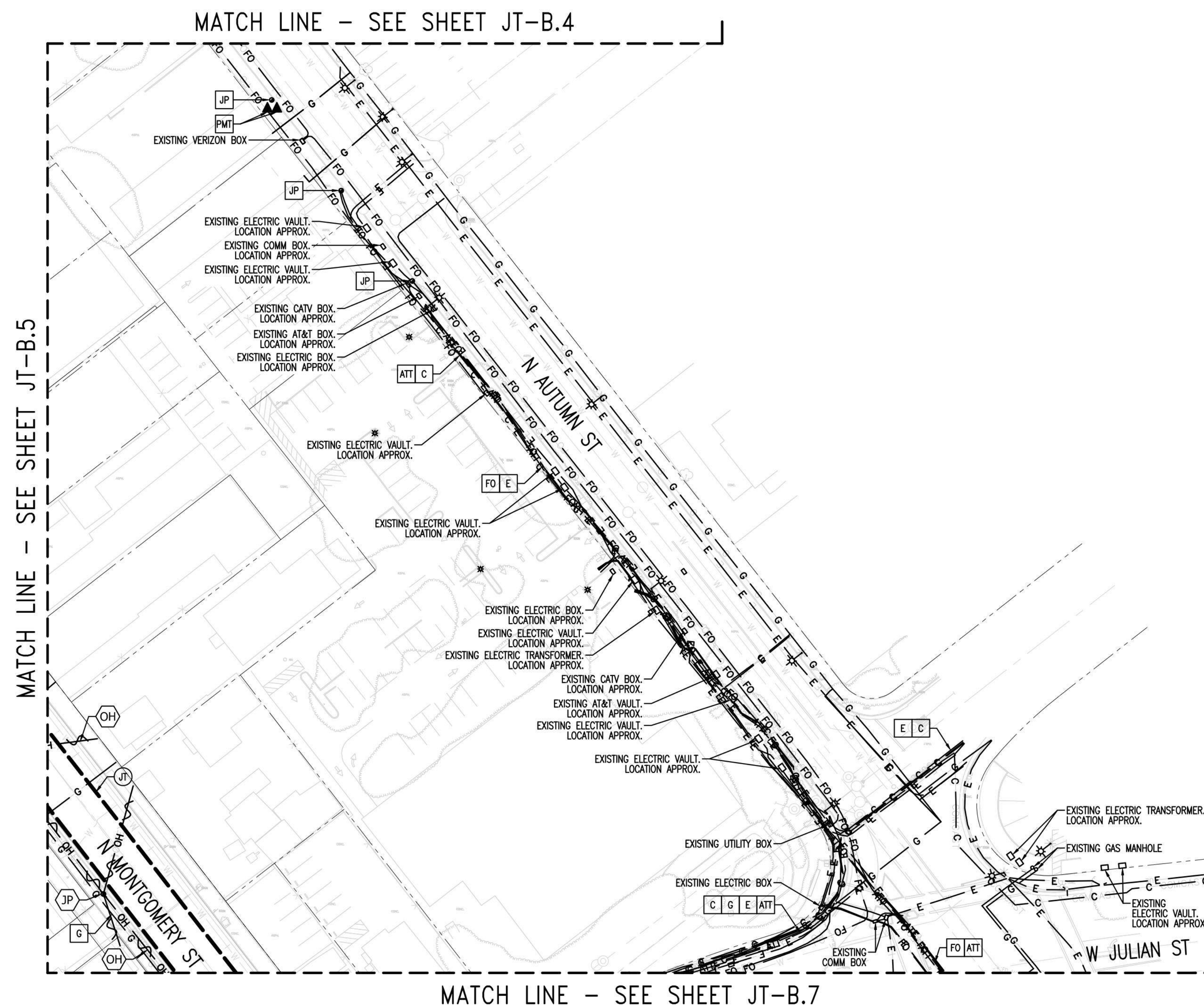
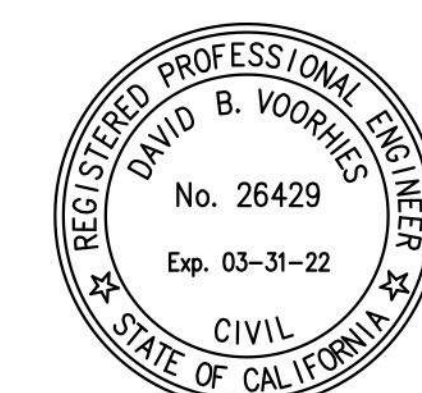


Diagram illustrating a sequence of boxes (JT-B.3 to JT-B.20) arranged in a zig-zag pattern, likely representing a process flow or a sequence of steps.

SHEET INDEX MAP  
N. T. S.

SHEET INDEX

JT-B.1	JOINT TRENCH TITLE SHEET
JT-B.2	OVERALL
JT-B.3 THRU B.20	JOINT TRENCH INTENT



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PLOT DATE: Wednesday, September 2, 2020 2:56:34 PM  
PLOT BY: HENRY



UTILITIES  
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TIE IN LOCATIONS

1-PRELIMINARY-  
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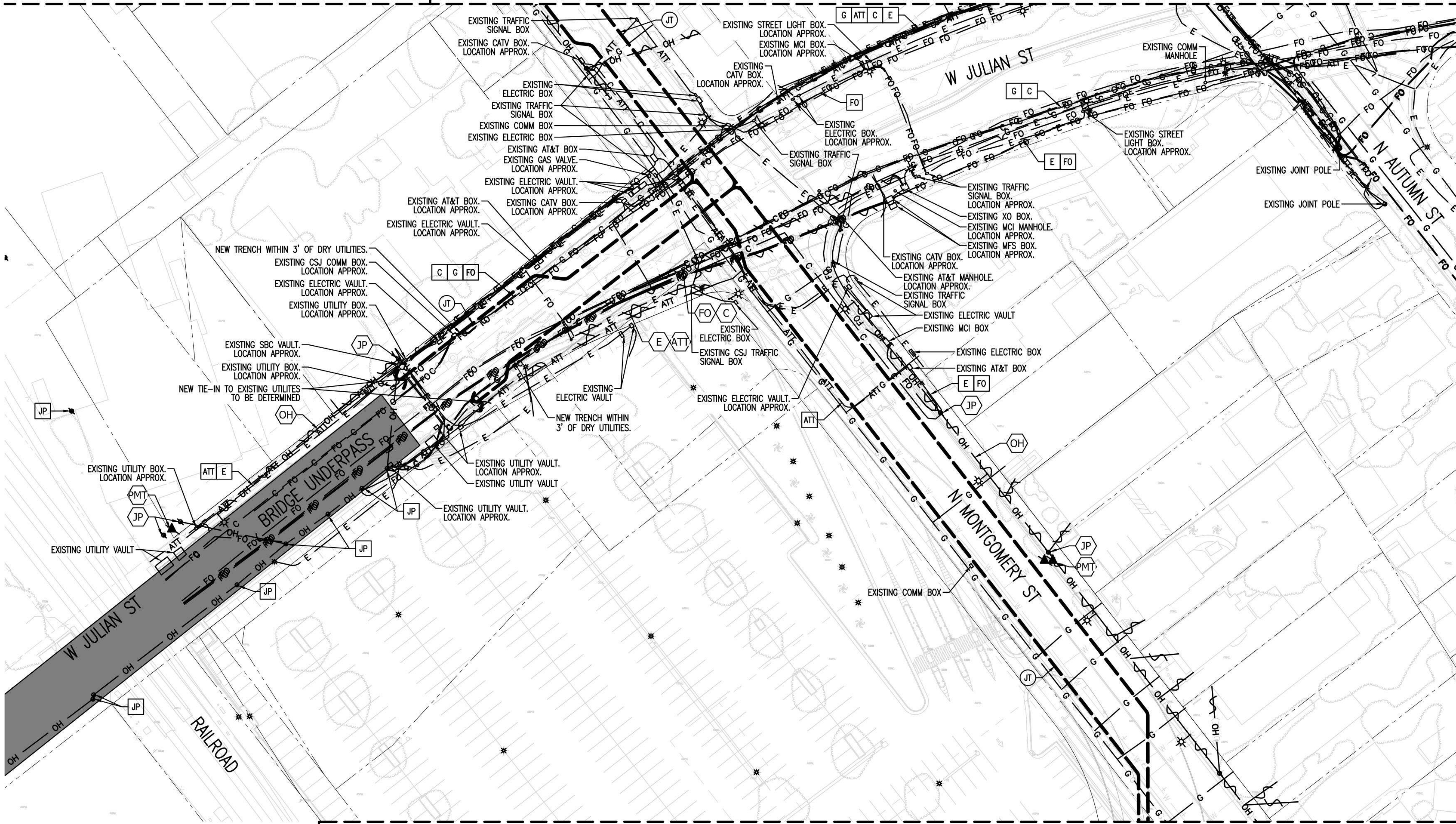
NOTE TO CONTRACTOR:  
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LEGEND:

NEW		DESCRIPTION	
JT	=====	JOINT TRENCH	
EXISTING		DESCRIPTION	
OH	———	OH	OVERHEAD LINES
E	———	E	ELECTRIC LINES
G	———	G	GAS LINES
ATT	———	ATT	AT&T LINES
C	———	C	CATV LINES
FO	———	FO	FIBER OPTIC LINES
JP	●	JP	JOINT POLE
PMT	▲	PMT	POLE-MOUNTED TRANSFORMER
DL	✱	DL	DECORATIVE LIGHT
SL	☼	SL	STREET LIGHT
TS	✱	TS	TRAFFIC SIGNAL LIGHT
OH	—X—	OH	EXISTING OVERHEAD LINE TO BE REMOVED
E	—X—	E	EXISTING ELECTRIC LINE TO BE REMOVED/RELOCATED
G	—X—	G	EXISTING GAS LINE TO BE REMOVED/RELOCATED
ATT	—X—	ATT	EXISTING PHONE LINE TO BE REMOVED/RELOCATED
FO	—X—	FO	EXISTING FIBER OPTIC LINE TO BE REMOVED/RELOCATED
JP	▲	JP	EXISTING JOINT POLE TO BE REMOVED
PMT	▲	PMT	EXISTING POLE-MOUNTED TRANSFORMER TO BE REMOVED

MATCH LINE - SEE SHEET JT-B.5

MATCH LINE - SEE SHEET JT-B.6



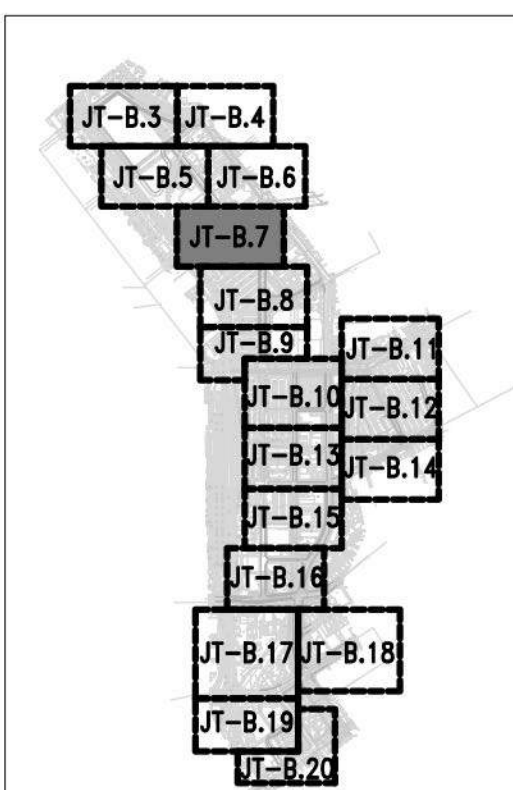
MATCH LINE - SEE SHEET JT-B.8

NOTE TO COMCAST:  
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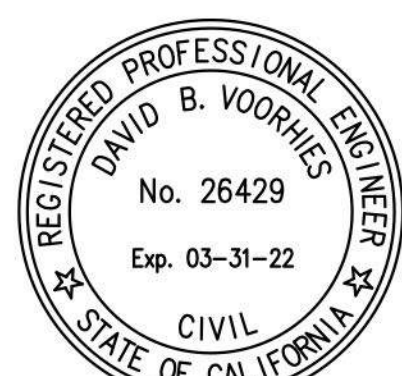
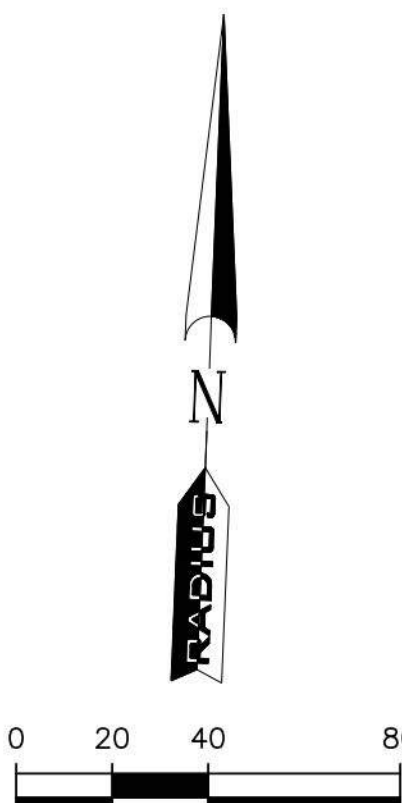
REFER TO PG&E UTILITY BULLETIN TD-7001B-00  
DOCUMENT FOR SMART METER ANTENNA  
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PG&E BULLETIN TO: 062388, R006



SHEET INDEX MAIN  
N T S



**JOINT TRENCH INTENT**  
**DOWNTOWN WEST**  
**San Jose, California**

SAN JOSE

**RADIUS**  
DESIGN LLC

UTILITY DESIGN CONSULTANTS & ENGINEERS  
460 MARIA LANE, SUITE 420, WALNUT CREEK, CA 94596  
Tel (925) 268-4575

PROJECT NUMBER:  
**20-1072**

SCALE:  
**1" = 40'**

PROJECT MANAGER:  
**SCOTT HARDESTER**

DRAWN BY:  
**HENRY NGUYEN**

CHECKED BY:  
**CRAIG BURTON**

LAST UPDATED:  
**10-07-2020**

DRAWING NUMBER:  
**JT-B.7**



UTILITIES  
PLEASE CONFIRM  
TIE IN LOCATIONS

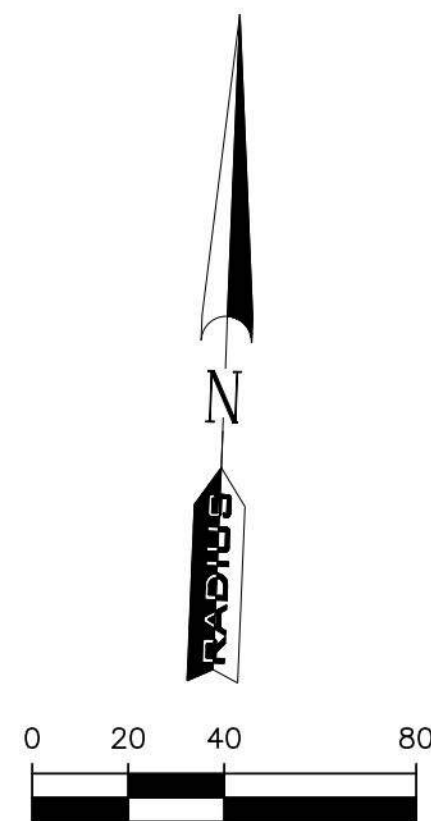
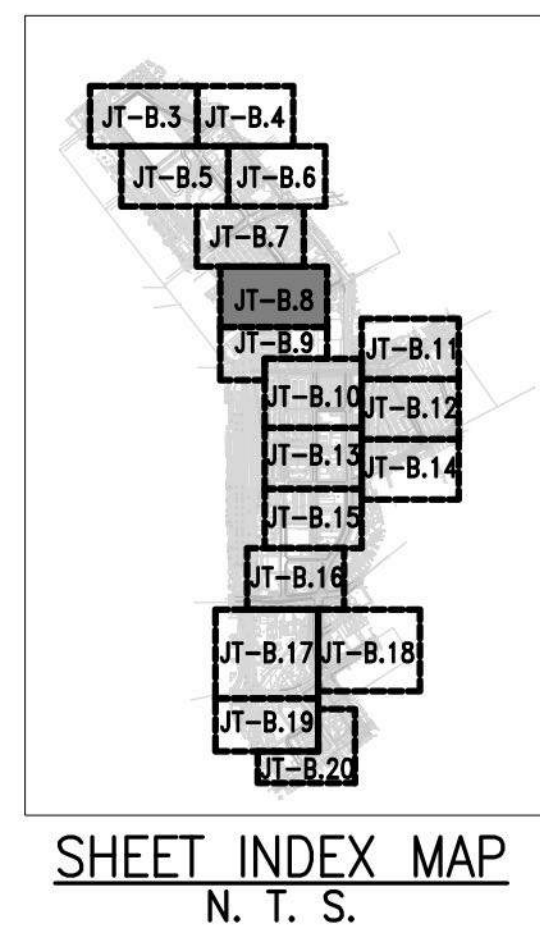
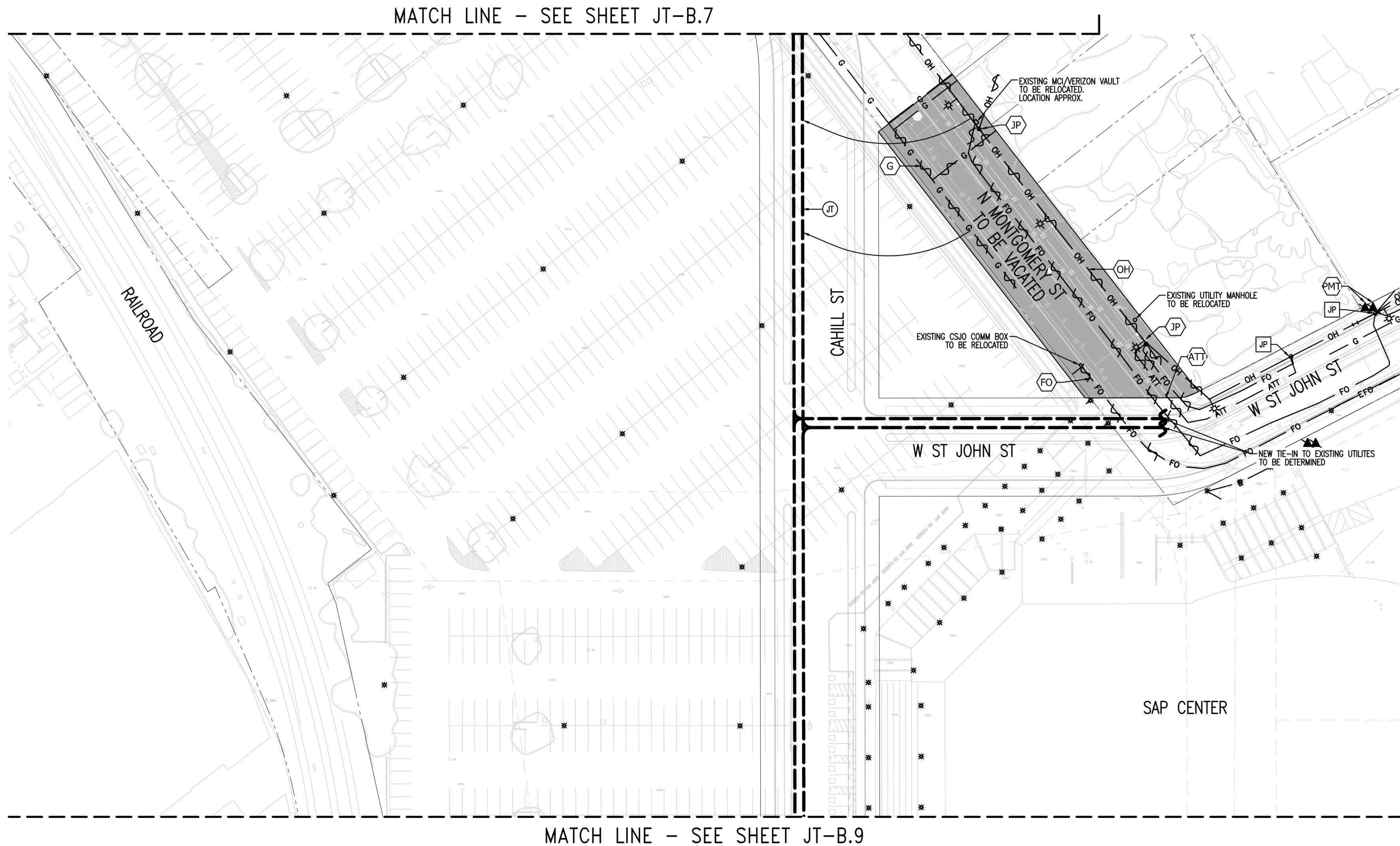
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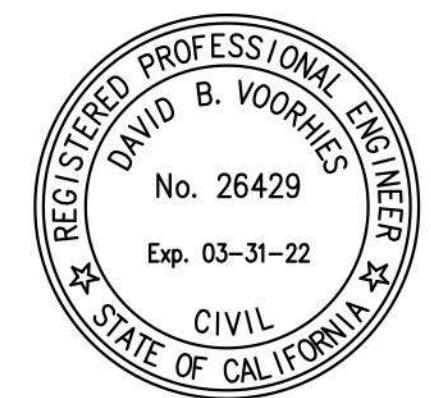
NOTE TO CONTRACTOR:  
FOR CONTRACTOR'S WORK RESPONSIBILITY,  
REFER TO JOINT TRENCH TITLE SHEET (JT-B.1)

LEGEND:	
NEW	DESCRIPTION
—	JOINT TRENCH
EXISTING	DESCRIPTION
OH	OVERHEAD LINES
E	ELECTRIC LINES
G	GAS LINES
ATT	AT&T LINES
C	CATV LINES
FO	FIBER OPTIC LINES
●	JOINT POLE
▲	POLE-MOUNTED TRANSFORMER
*	DECORATIVE LIGHT
⊙	STREET LIGHT
⊙	TRAFFIC SIGNAL LIGHT
OH	EXISTING OVERHEAD LINE TO BE REMOVED
E	EXISTING ELECTRIC LINE TO BE REMOVED/RELOCATED
G	EXISTING GAS LINE TO BE REMOVED/RELOCATED
ATT	EXISTING PHONE LINE TO BE REMOVED/RELOCATED
FO	EXISTING FIBER OPTIC LINE TO BE REMOVED/RELOCATED
●	EXISTING JOINT POLE TO BE REMOVED
▲	EXISTING POLE-MOUNTED TRANSFORMER TO BE REMOVED

DATE:	
REVISION:	
DELTA NO:	



SHEET INDEX	
JT-B.1	JOINT TRENCH TITLE SHEET
JT-B.2	OVERALL
JT-B.3 THRU B.20	JOINT TRENCH INTENT



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JOINT TRENCH INTENT  
DOWNTOWN WEST  
San Jose, California  
SAN JOSE  
CALIFORNIA

**RADIUS DESIGN**  
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1480 MARIA LANE, SUITE 420, WALNUT CREEK, CA 94596  
Tel (925) 269-4575

PROJECT NUMBER:  
20-1072

SCALE:  
1" = 40'

PROJECT MANAGER:  
SCOTT HARDESTER

DRAWN BY:  
HENRY NGUYEN

CHECKED BY:  
CRAIG BURTON

LAST UPDATED:  
00-07-2020

DRAWING NUMBER:  
JT-B.8

SHEET: 8 OF: 20



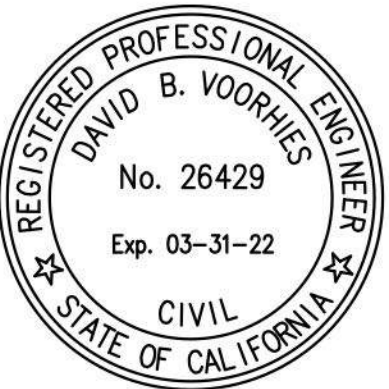
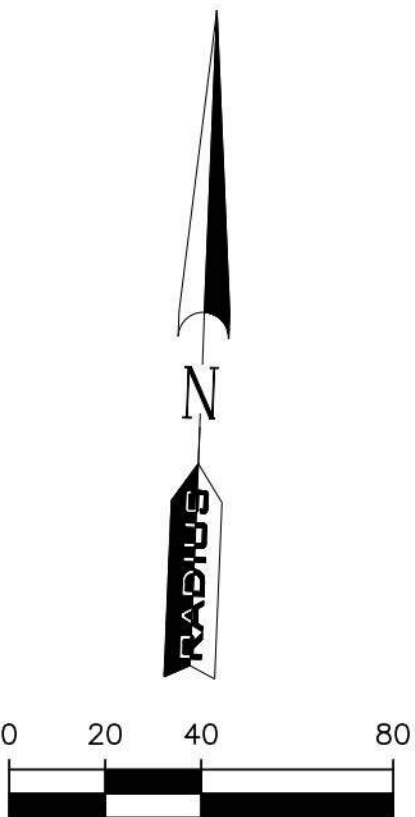
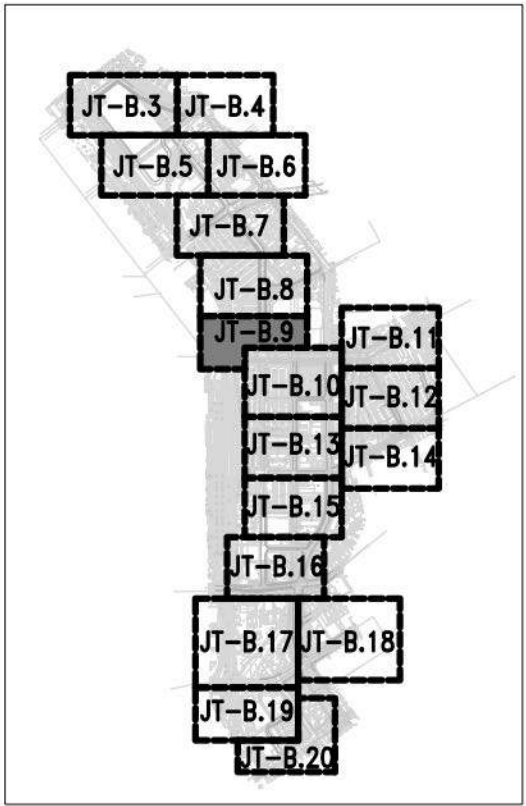
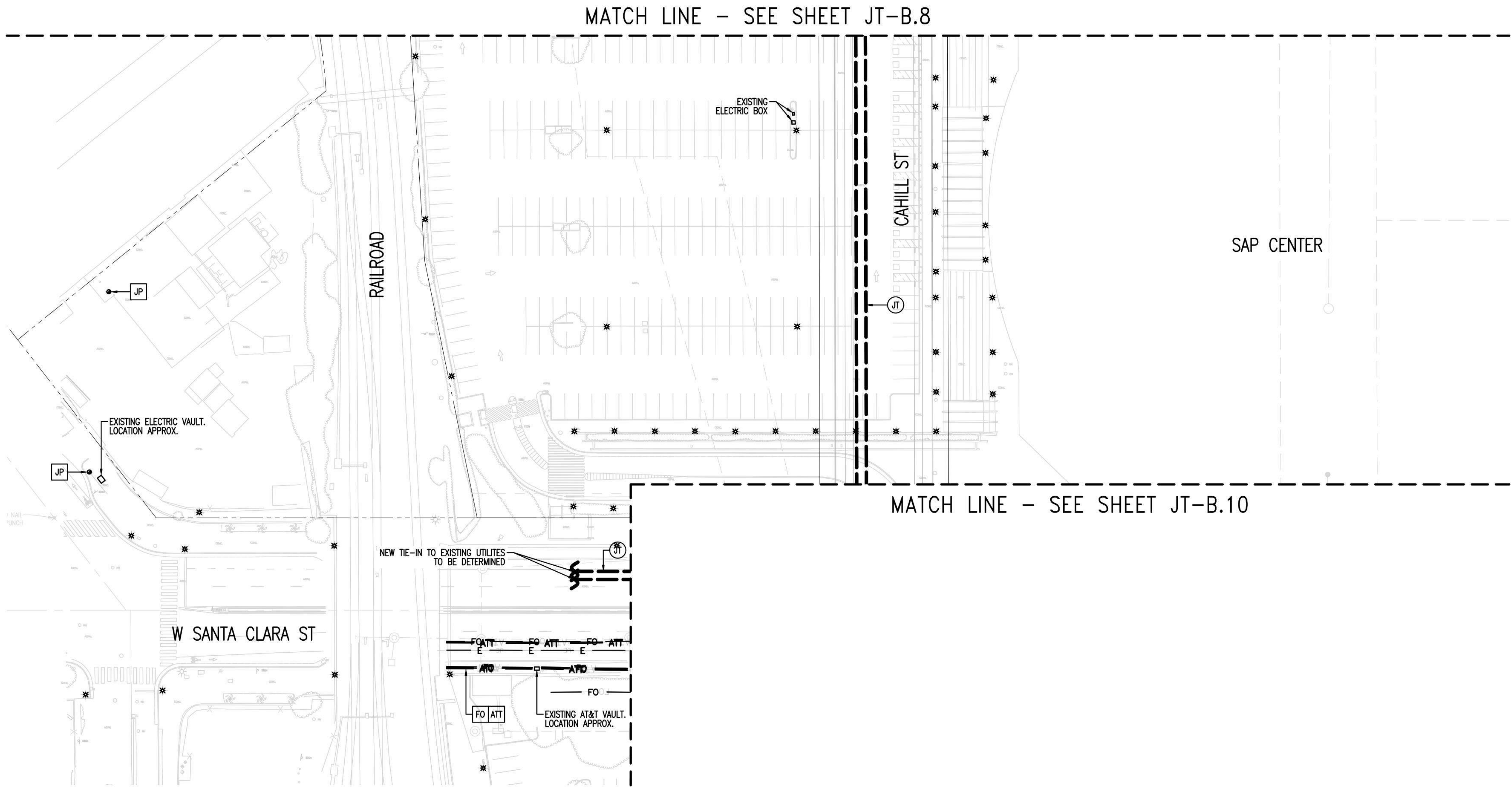
UTILITIES  
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TIE IN LOCATIONS

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LEGEND:	
NEW	DESCRIPTION
①	JOINT TRENCH
EXISTING	DESCRIPTION
OH	OVERHEAD LINES
E	ELECTRIC LINES
G	GAS LINES
ATT	AT&T LINES
C	CATV LINES
FO	FIBER OPTIC LINES
JP	JOINT POLE
PT	POLE-MOUNTED TRANSFORMER
DL	DECORATIVE LIGHT
SL	STREET LIGHT
TSL	TRAFFIC SIGNAL LIGHT
OH	EXISTING OVERHEAD LINE TO BE REMOVED
E	EXISTING ELECTRIC LINE TO BE REMOVED/RELOCATED
G	EXISTING GAS LINE TO BE REMOVED/RELOCATED
ATT	EXISTING PHONE LINE TO BE REMOVED/RELOCATED
FO	EXISTING FIBER OPTIC LINE TO BE REMOVED/RELOCATED
JP	EXISTING JOINT POLE TO BE REMOVED
PT	EXISTING POLE-MOUNTED TRANSFORMER TO BE REMOVED



SHEET INDEX	
JT-B.1	JOINT TRENCH TITLE SHEET
JT-B.2	OVERALL
JT-B.3 THRU B.20	JOINT TRENCH INTENT

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DATE:	
REVISION:	
DELTA NO:	



CALIFORNIA

JOINT TRENCH INTENT  
DOWNTOWN WEST  
San Jose, California

SAN JOSE

**RADIUS** DESIGN  
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SCOTT HARDESTER  
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HENRY NGUYEN  
CHECKED BY:  
CRAIG BURTON  
LAST UPDATED:  
10-07-2020  
DRAWING NUMBER:  
JT-B.9  
SHEET: 9 OF: 20



UTILITIES

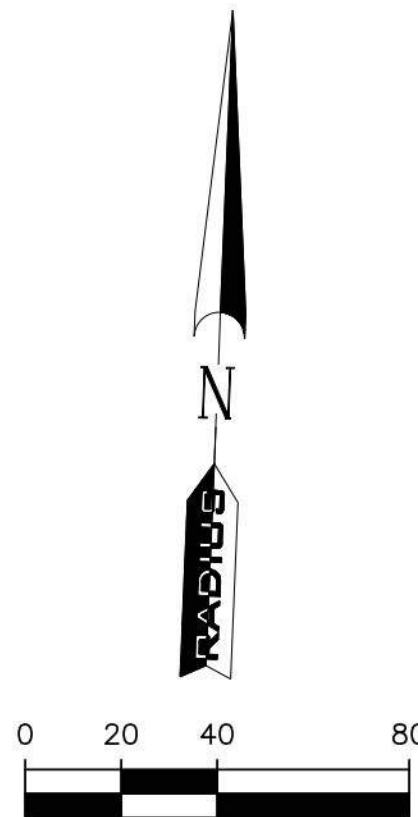
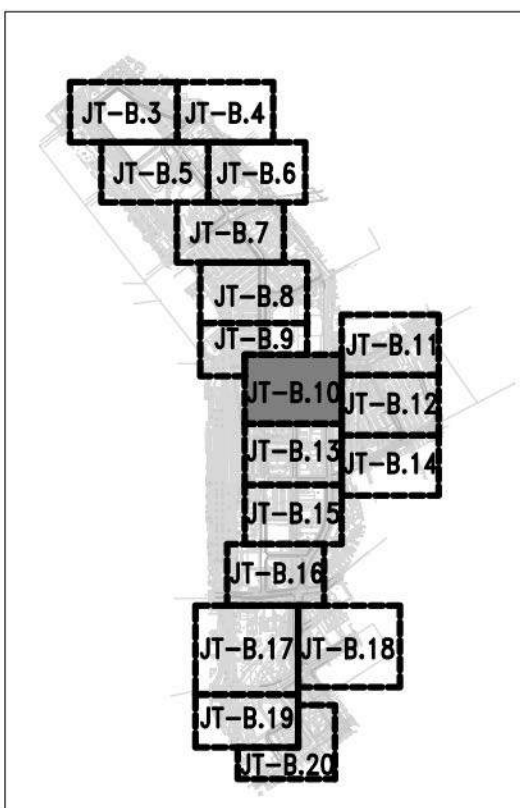
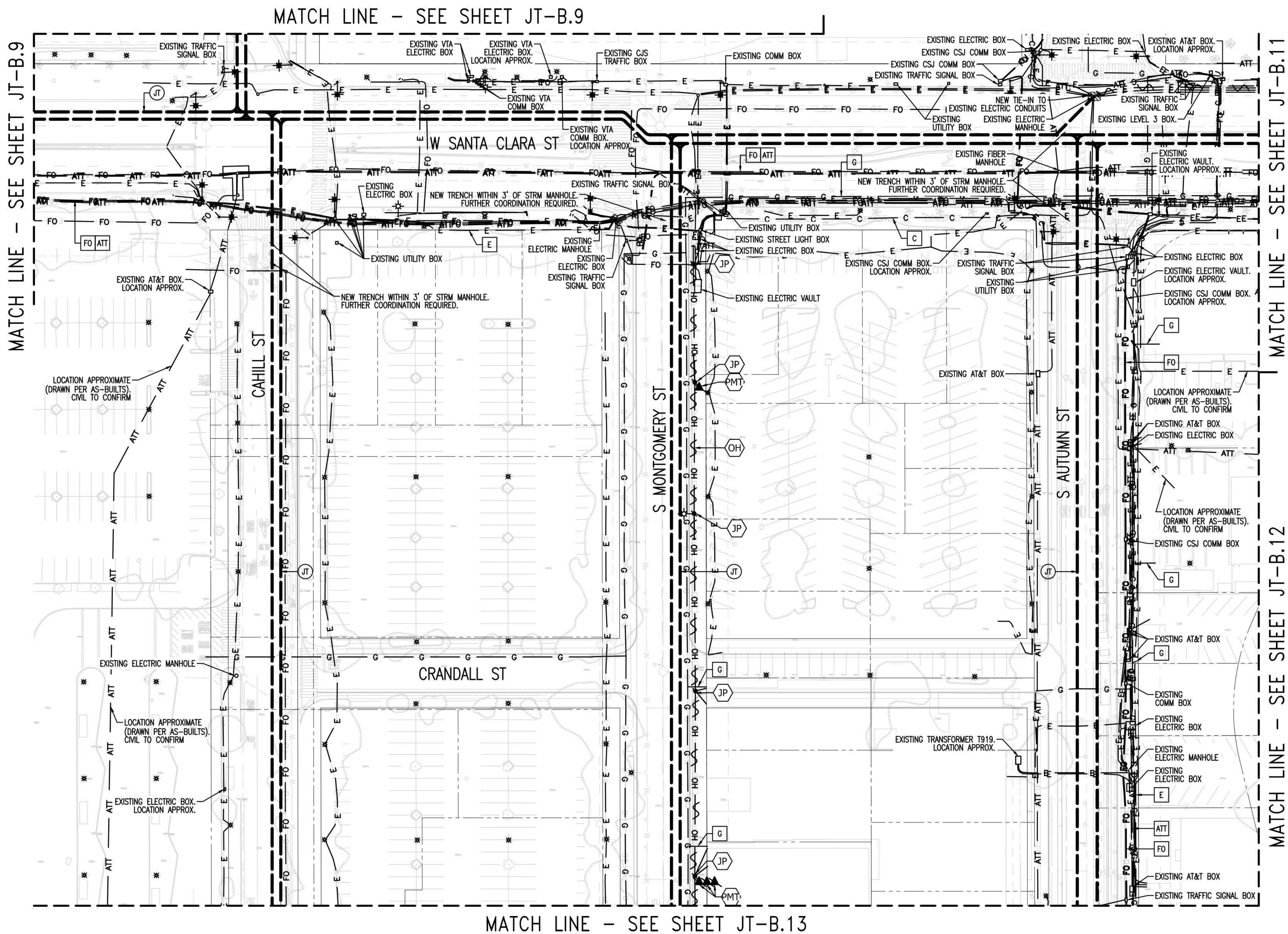
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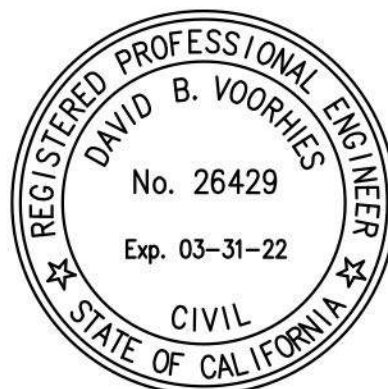
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LEGEND:	
NEW	DESCRIPTION
④	JOINT TRENCH
EXISTING	DESCRIPTION
OH	OVERHEAD LINES
E	ELECTRIC LINES
G	GAS LINES
ATT	AT&T LINES
C	CATV LINES
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●	EXISTING JOINT POLE TO BE REMOVED
▲	EXISTING POLE-MOUNTED TRANSFORMER TO BE REMOVED



SHEET INDEX MAP  
N. T. S.

SHEET INDEX  
JT-B.1 JOINT TRENCH TITLE SHEET  
JT-B.2 OVERALL  
JT-B.3 THRU JT-B.20 JOINT TRENCH INTENT



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1" = 40'  
PROJECT MANAGER:  
SCOTT HARDESTER  
DRAWN BY:  
HENRY NGUYEN  
CHECKED BY:  
CRAIG BURTON  
LAST UPDATED:  
10-07-2020  
DRAWING NUMBER:  
**JT-B.10**  
SHEET: 10 OF 20



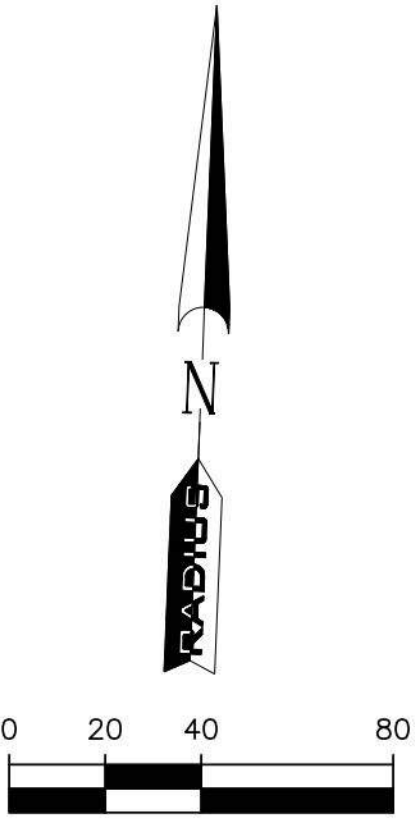
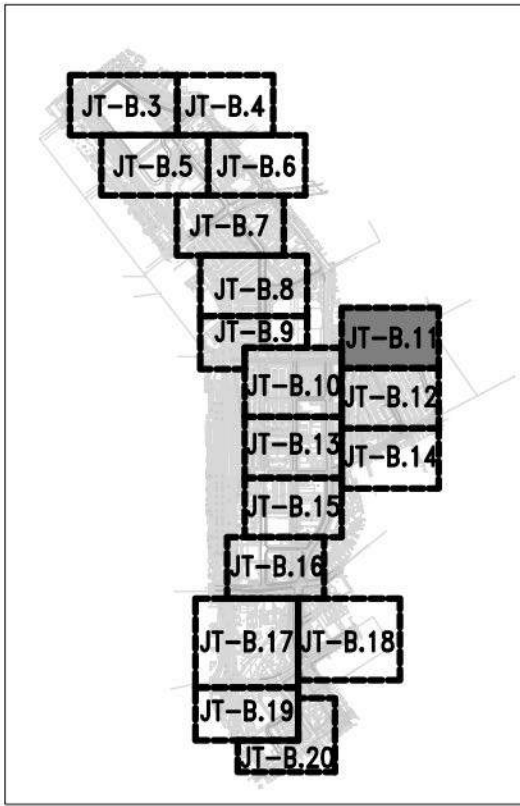
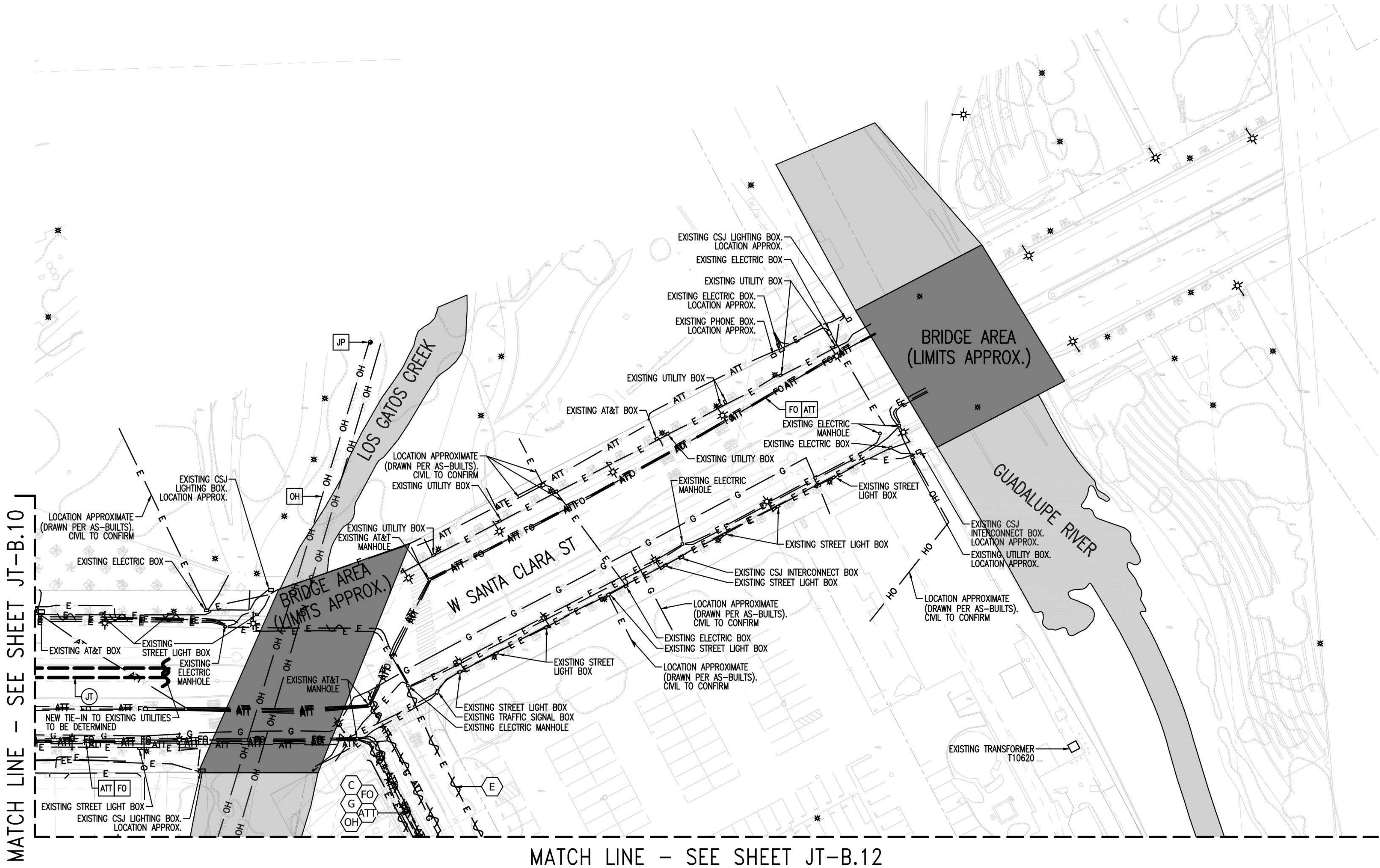
UTILITIES  
PLEASE CONFIRM  
TIE IN LOCATIONS

—PRELIMINARY—  
NOT FOR CONSTRUCTION

THIS IS NOT A BID DOCUMENT  
THIS DRAWING HAS NOT YET BEEN REVIEWED BY  
UTILITY COMPANIES AND IS SUBJECT TO CHANGE.

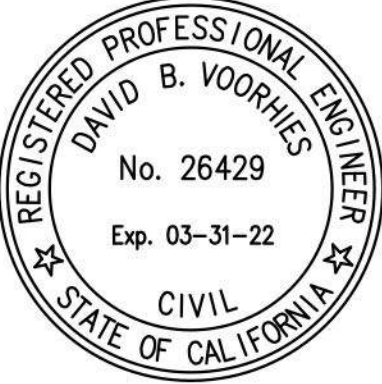
NOTE TO CONTRACTOR:  
FOR CONTRACTOR'S WORK RESPONSIBILITY,  
REFER TO JOINT TRENCH TITLE SHEET (JT-B.1)

LEGEND:	
NEW	DESCRIPTION
④	JOINT TRENCH
EXISTING	DESCRIPTION
OH	OH OVERHEAD LINES
E	E ELECTRIC LINES
G	G GAS LINES
ATT	ATT AT&T LINES
C	C CATV LINES
FO	FO FIBER OPTIC LINES
●	JOINT POLE
▲	POLE-MOUNTED TRANSFORMER
*	DECORATIVE LIGHT
⊙	STREET LIGHT
⊙	TRAFFIC SIGNAL LIGHT
OH	EXISTING OVERHEAD LINE TO BE REMOVED
E	EXISTING ELECTRIC LINE TO BE REMOVED/RELOCATED
G	EXISTING GAS LINE TO BE REMOVED/RELOCATED
ATT	EXISTING PHONE LINE TO BE REMOVED/RELOCATED
FO	EXISTING FIBER OPTIC LINE TO BE REMOVED/RELOCATED
●	EXISTING JOINT POLE TO BE REMOVED
▲	EXISTING POLE-MOUNTED TRANSFORMER TO BE REMOVED



SHEET INDEX MAP  
N. T. S.

SHEET INDEX	
JT-B.1	JOINT TRENCH TITLE SHEET
JT-B.2	OVERALL
JT-B.3 THRU B.20	JOINT TRENCH INTENT



NOTE TO COMCAST:  
PLEASE CONFIRM WHO WILL PROVIDE CONDUIT AND  
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REFER TO PG&E UTILITY BULLETIN TD-7001B-005  
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CONSTRUCTION REQUIREMENTS.

SUBSTRUCTURE LOCATIONS MUST BE STAKED BY A  
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SEE CONSTRUCTION NOTES ON JOINT TRENCH TITLE  
SHEET (JT-B.1) REGARDING EXISTING CONDITIONS.

NOTE FOR UNDERGROUND ELECTRIC INSTALLATION:  
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APPROVED CONDUITS, BENDS, AND FITTINGS, SEE  
PG&E BULLETIN TD-062288-8006.

DATE:	
REVISION:	
DELTA NO:	

JOINT TRENCH INTENT  
DOWNTOWN WEST  
San Jose, California

SAN JOSE

**RADIUS** DESIGN  
UTILITY DESIGN CONSULTANTS & ENGINEERS  
1480 MARIA LANE, SUITE 420, WALNUT CREEK, CA 94596  
Tel (925) 269-4575

PROJECT NUMBER:  
20-1072  
SCALE:  
1" = 40'  
PROJECT MANAGER:  
SCOTT HARDESTER  
DRAWN BY:  
HENRY NGUYEN  
CHECKED BY:  
CRAIG BURTON  
LAST UPDATED:  
10-07-2020  
DRAWING NUMBER:  
**JT-B.11**  
SHEET: 11 OF: 20








































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–PRELIMINARY–  
NOT FOR CONSTRUCTION

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<p align="center"><u>NOTE TO CONTRACTOR:</u> FOR CONTRACTOR'S WORK RESPONSIBILITY, REFER TO JOINT TRENCH TITLE SHEET (JT-B.1)</p>	<p>DATE:</p>
---	--------------

LEGEND:

NEW		DESCRIPTION	
	JOINT TRENCH		
EXISTING		DESCRIPTION	
	OH		OVERHEAD LINES
	E		ELECTRIC LINES
	G		GAS LINES
	ATT		AT&T LINES
	C		CATV LINES
	FO		FIBER OPTIC LINES
	JP		JOINT POLE
	PMT		POLE-MOUNTED TRANSFORMER
	DL		DECORATIVE LIGHT
	SL		STREET LIGHT
	TS		TRAFFIC SIGNAL LIGHT
	OH		EXISTING OVERHEAD LINE TO BE REMOVED
	E		EXISTING ELECTRIC LINE TO BE REMOVED/RELOCATED
	G		EXISTING GAS LINE TO BE REMOVED/RELOCATED
	ATT		EXISTING PHONE LINE TO BE REMOVED/RELOCATED
	FO		EXISTING FIBER OPTIC LINE TO BE REMOVED/RELOCATED
	JP		EXISTING JOINT POLE TO BE REMOVED
	PMT		EXISTING POLE-MOUNTED TRANSFORMER TO BE REMOVED

[illegible]

CALIFORNIA

**JOINT TRENCH INTENT**

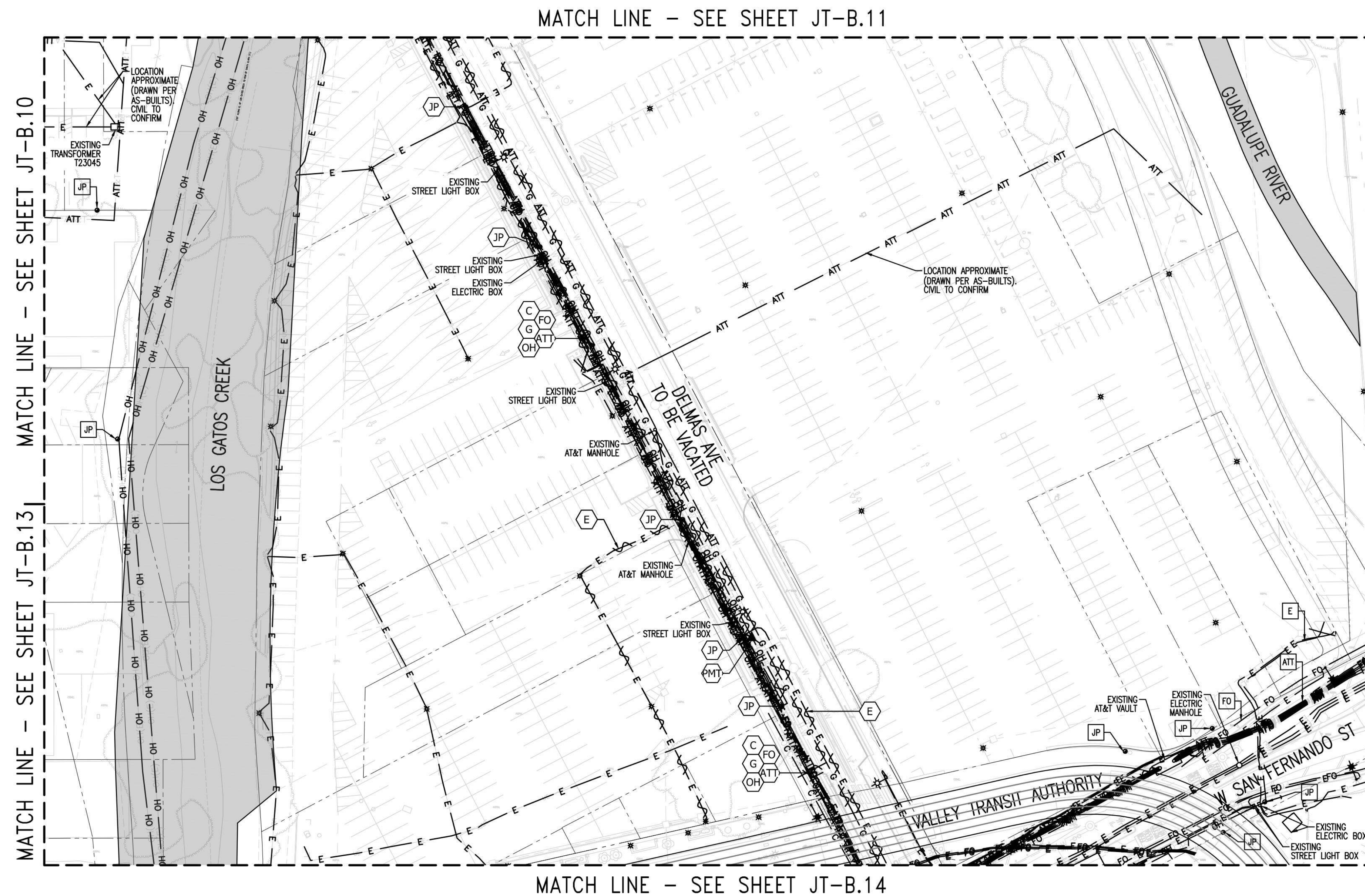
**DOWNTOWN WEST**  
San Jose, California

SAN JOSE

**RADIUS**  
DESIGN LLC

UTILITY DESIGN CONSULTANTS & ENGINEERS  
1460 MARIA LANE, SUITE 420, WALNUT CREEK, CA 94599  
Tel (925) 269-4575

PROJECT NUMBER:	20-1072
SCALE:	1" = 40'
PROJECT MANAGER:	SCOTT HARDESTER
DRAWN BY:	HENRY NGUYEN
CHECKED BY:	CRAIG BURTON
LAST UPDATED:	10-07-2020
DRAWING NUMBER:	UT-B.12
EET:	12 OF: 20



MATCH LINE - SEE SHEET JT-B.10

MATCH LINE - SEE SHEET JT-B.13

MATCH LINE - SEE SHEET JT-B.11

MATCH LINE - SEE SHEET JT-B.14

NOTE TO COMCAST:  
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DOCUMENT FOR SMART METER ANTENNA  
CONSTRUCTION REQUIREMENTS.

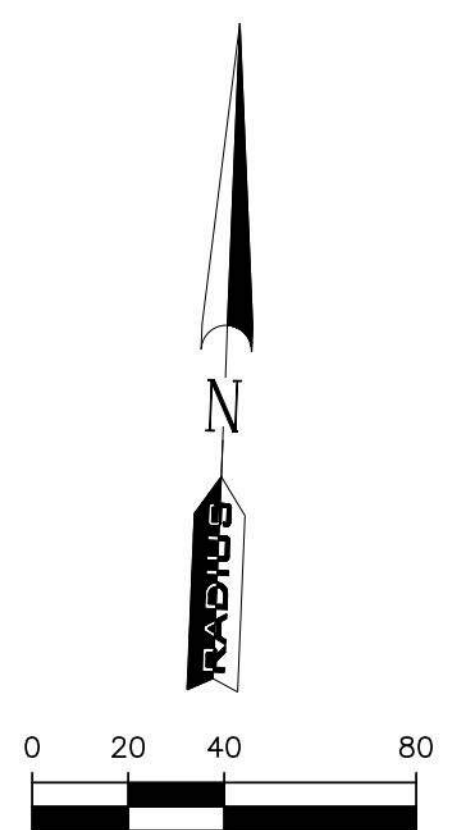
SUBSTRUCTURE LOCATIONS MUST BE STAKED BY A  
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SHEET (JT-B.1) REGARDING EXISTING CONDITIONS.

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PG&E BULLETIN TD-062288-R006

JT-B.1 JT-B.2  
JT-B.3 JT-B.4  
JT-B.5 JT-B.6  
JT-B.7  
JT-B.8  
JT-B.9 JT-B.11  
JT-B.10 JT-B.12  
JT-B.13 JT-B.14  
JT-B.15  
JT-B.16  
JT-B.17 JT-B.18  
JT-B.19  
JT-B.20

SHEET INDEX MAP  
N. T. S.

SHEET INDEX	
JT-B.1	JOINT TRENCH TITLE SHEET
JT-B.2	OVERALL
JT-B.3 THRU B.20	JOINT TRENCH INTENT



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PLOT DATE: Wednesday, September 2, 2020 2:56:34 PM  
PLOT BY: HENRY



UTILITIES  
PLEASE CONFIRM  
TIE IN LOCATIONS

1-~~PRELIMINARY~~-  
NOT FOR CONSTRUCTION

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UTILITY COMPANIES AND IS SUBJECT TO CHANGE.

NOTE TO CONTRACTOR:  
FOR CONTRACTOR'S WORK RESPONSIBILITY,  
REFER TO JOINT TRENCH TITLE SHEET (JT-B.1)

LEGEND:

NEW	DESCRIPTION	
JT	JOINT TRENCH	
<b>EXISTING</b>		
OH	OH	OVERHEAD LINES
E	E	ELECTRIC LINES
G	G	GAS LINES
ATT	ATT	AT&T LINES
C	C	CATV LINES
FO	FO	FIBER OPTIC LINES
JP	●	JOINT POLE
PMT	▲	POLE-MOUNTED TRANSFORMER
DL	✱	DECORATIVE LIGHT
SL	⚡	STREET LIGHT
TS	⚡	TRAFFIC SIGNAL LIGHT
OH	OH	EXISTING OVERHEAD LINE TO BE REMOVED
E	E	EXISTING ELECTRIC LINE TO BE REMOVED/RELOCATED
G	G	EXISTING GAS LINE TO BE REMOVED/RELOCATED
ATT	ATT	EXISTING PHONE LINE TO BE REMOVED/RELOCATED
FO	FO	EXISTING FIBER OPTIC LINE TO BE REMOVED/RELOCATED
JP	●	EXISTING JOINT POLE TO BE REMOVED
PMT	▲	EXISTING POLE-MOUNTED TRANSFORMER TO BE REMOVED

[illegible]

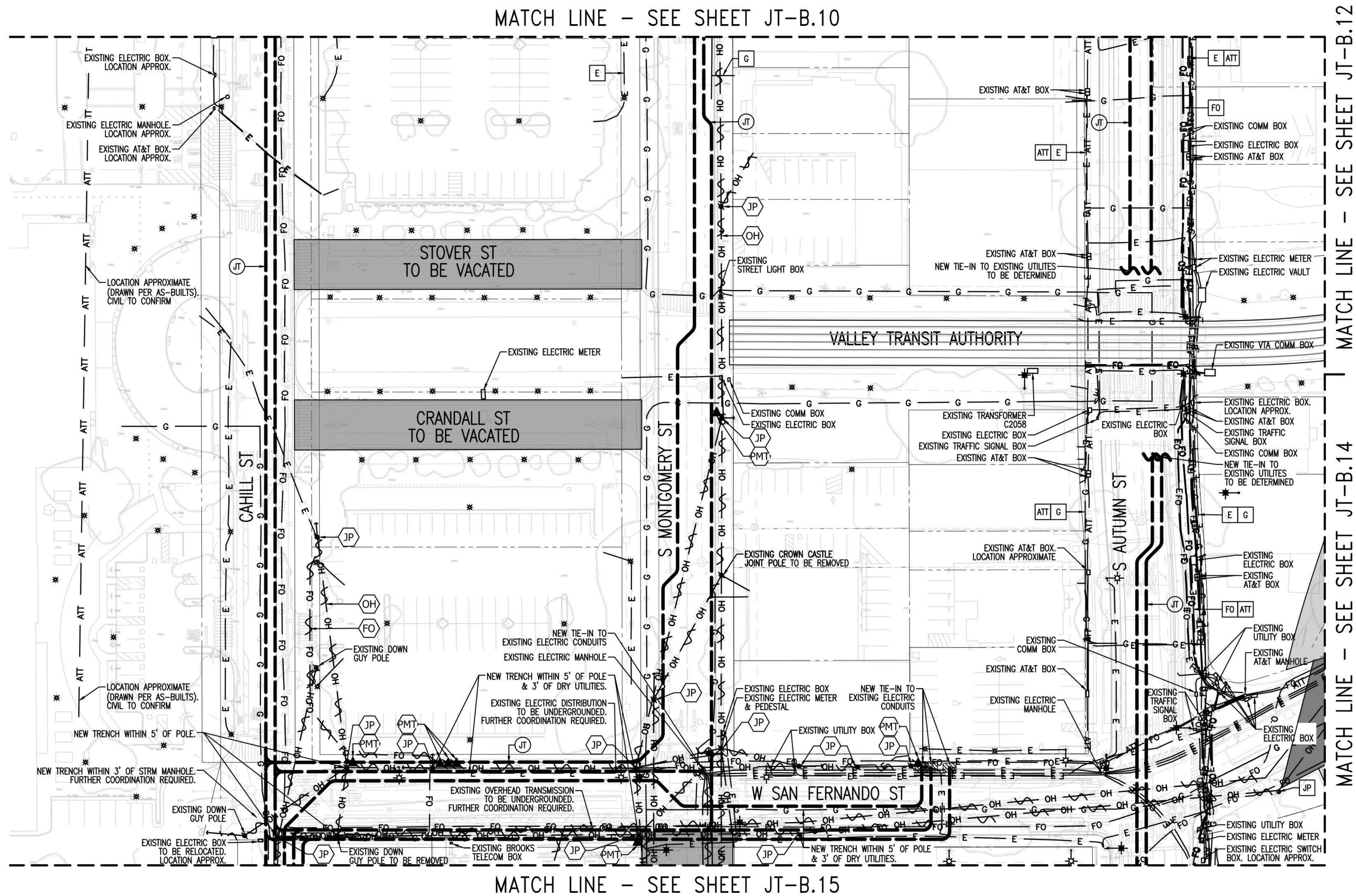
CAI TEORNI

**JOINT TRENCH INTENT**  
**DOWNTOWN WEST**  
**San Jose, California**

CAN TOCE

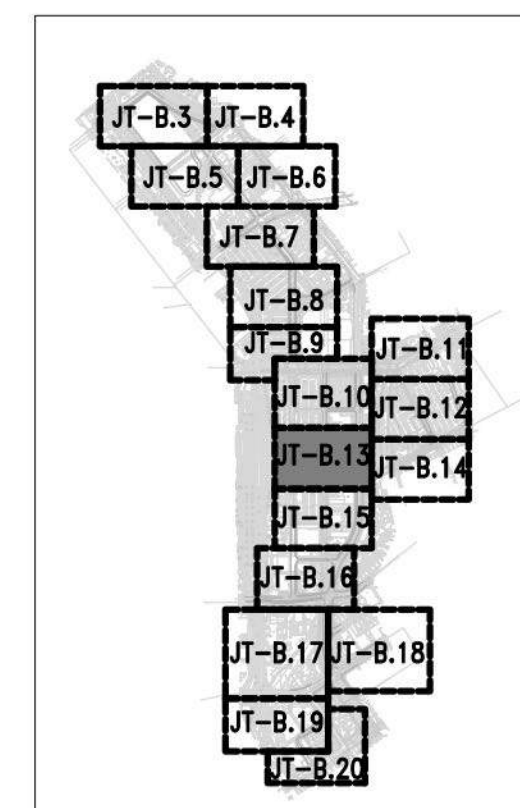
**RADIUS**  
**DESIGN LLC**  
UTILITY DESIGN CONSULTANTS & ENGINEERS  
1460 MARIA LANE, SUITE 420, WALNUT CREEK, CA 94598

PROJECT NUMBER: <b>20-1072</b>	
SCALE: <b>1" = 40'</b>	
PROJECT MANAGER: <b>SCOTT HARDESTER</b>	
DRAWN BY: <b>HENRY NGUYEN</b>	
CHECKED BY: <b>CRAIG BURTON</b>	
LAST UPDATED: <b>10-07-2020</b>	
DRAWING NUMBER: <b>JT-B.13</b>	
SHEET: <b>13</b>	OF: <b>20</b>



MATCH LINE - SEE SHEET JT-B.12

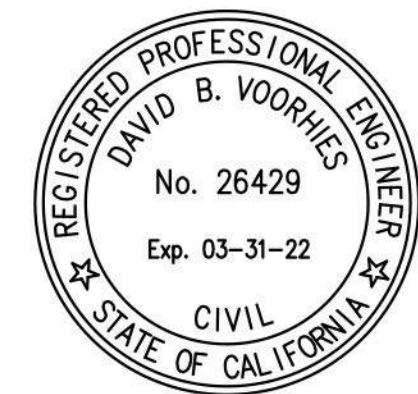
MATCH LINE - SEE SHEET JT-B.14



SHEET INDEX MAP  
N. T. S.

## SHEET INDEX

JT-B.1 JOINT TRENCH TITLE SHEET  
JT-B.2 OVERALL  
JT-B.3 THRU B.20 JOINT TRENCH INTENT



NOTE TO COMCAST:  
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PG&E BULLETIN TD-062288-B006.

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PLOT DATE: Wednesday, September 2, 2020 2:56:34 PM  
PLOTTED BY: HENRY



PLEASE CONFIRM  
TIE IN LOCATIONS

–PRELIMINARY–  
NOT FOR CONSTRUCTION

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NOTE TO CONTRACTOR:  
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REFER TO JOINT TRENCH TITLE SHEET (JT-B.1)

**LEGEND:**

NEW		DESCRIPTION	
JT		JOINT TRENCH	
EXISTING		DESCRIPTION	
OH		OH	OVERHEAD LINES
E		E	ELECTRIC LINES
G		G	GAS LINES
ATT		ATT	ATTIC LINES
C		C	CATV LINES
FO		FO	FIBER OPTIC LINES
J		J	JOINT POLE
PM		PM	POLE-MOUNTED TRANSFORMER
DL		DL	DECORATIVE LIGHT
SL		SL	STREET LIGHT
TS		TS	TRAFFIC SIGNAL LIGHT
OH		OH	EXISTING OVERHEAD LINE TO BE REMOVED
E		E	EXISTING ELECTRIC LINE TO BE REMOVED/RELOCATED
G		G	EXISTING GAS LINE TO BE REMOVED/RELOCATED
ATT		ATT	EXISTING PHONE LINE TO BE REMOVED/RELOCATED
FO		FO	EXISTING FIBER OPTIC LINE TO BE REMOVED/RELOCATED
J		J	EXISTING JOINT POLE TO BE REMOVED
PM		PM	EXISTING POLE-MOUNTED TRANSFORMER TO BE REMOVED



CALIFORNIA

**JOINT TRENCH INTENT**

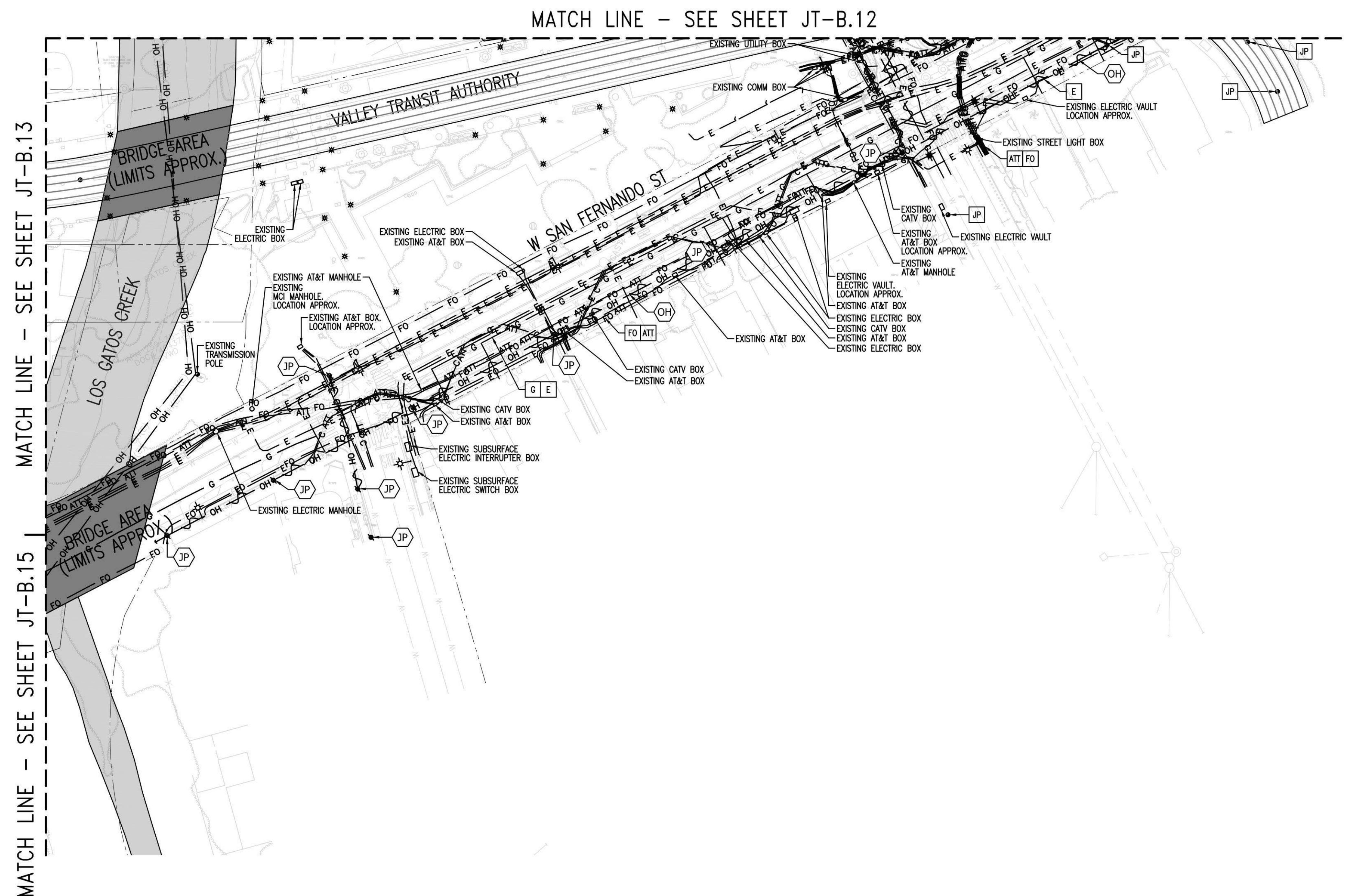
**DOWNTOWN WEST**  
San Jose, California

SAN JOSE

**RADIUS**  
**DESIGN, LLC**

UTILITY DESIGN CONSULTANTS & ENGINEERS  
460 MARIA LANE, SUITE 420, WALNUT CREEK, CA 94598  
Tel (925) 269-4575

PROJECT NUMBER:	20-1072
SCALE:	1" = 40'
PROJECT MANAGER:	SCOTT HARDESTER
DRAWN BY:	HENRY NGUYEN
CHECKED BY:	CRAIG BURTON
LAST UPDATED:	10-07-2020
DRAWING NUMBER:	JT-B.14
SHEET:	14 OF 20



JT-B.3 JT-B.4

JT-B.5 JT-B.6

JT-B.7

JT-B.8

JT-B.9 JT-B.11

JT-B.10 JT-B.12

JT-B.13 JT-B.14

JT-B.15

JT-B.16

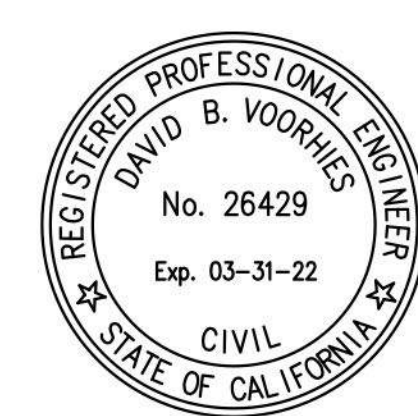
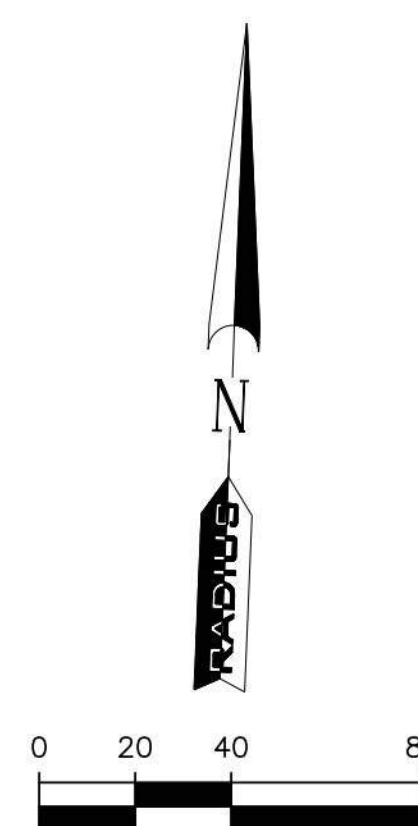
JT-B.17 JT-B.18

JT-B.19

JT-B.20

SHEET INDEX MAP  
N. T. S.

SHEET INDEX	
JT-B.1	JOINT TRENCH TITLE SHEET
JT-B.2	OVERALL
JT-B.3 THRU B.20	JOINT TRENCH INTENT



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PLOT DATE: Wednesday, September 2, 2020 2:56:34 PM

PLOT BY: HENRY



UTILITIES  
PLEASE CONFIRM  
TIE IN LOCATIONS

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REFER TO JOINT TRENCH TITLE SHEET (JT-B.1)

LEGEND:

NEW		DESCRIPTION	
JT	— — — — —	JOINT TRENCH	
<b>EXISTING</b>			
OH	— — — — —	OH	OVERHEAD LINES
E	— — — — —	E	ELECTRIC LINES
G	— — — — —	G	GAS LINES
ATT	— — — — —	ATT	AT&T LINES
C	— — — — —	C	CATV LINES
FO	— — — — —	FO	FIBER OPTIC LINES
JP	●	JP	JOINT POLE
PM	▲	PM	POLE-MOUNTED TRANSFORMER
DL	✱	DL	DECORATIVE LIGHT
SL	⚡	SL	STREET LIGHT
TS	⚡	TS	TRAFFIC SIGNAL LIGHT
OH	⚡	OH	EXISTING OVERHEAD LINE TO BE REMOVED
E	⚡	E	EXISTING ELECTRIC LINE TO BE REMOVED/RELOCATED
G	⚡	G	EXISTING GAS LINE TO BE REMOVED/RELOCATED
ATT	⚡	ATT	EXISTING PHONE LINE TO BE REMOVED/RELOCATED
FO	⚡	FO	EXISTING FIBER OPTIC LINE TO BE REMOVED/RELOCATED
JP	●	JP	EXISTING JOINT POLE TO BE REMOVED
PM	▲	PM	EXISTING POLE-MOUNTED TRANSFORMER TO BE REMOVED

[illegible]

CALIFORNIA

**JOINT TRENCH INTENT**

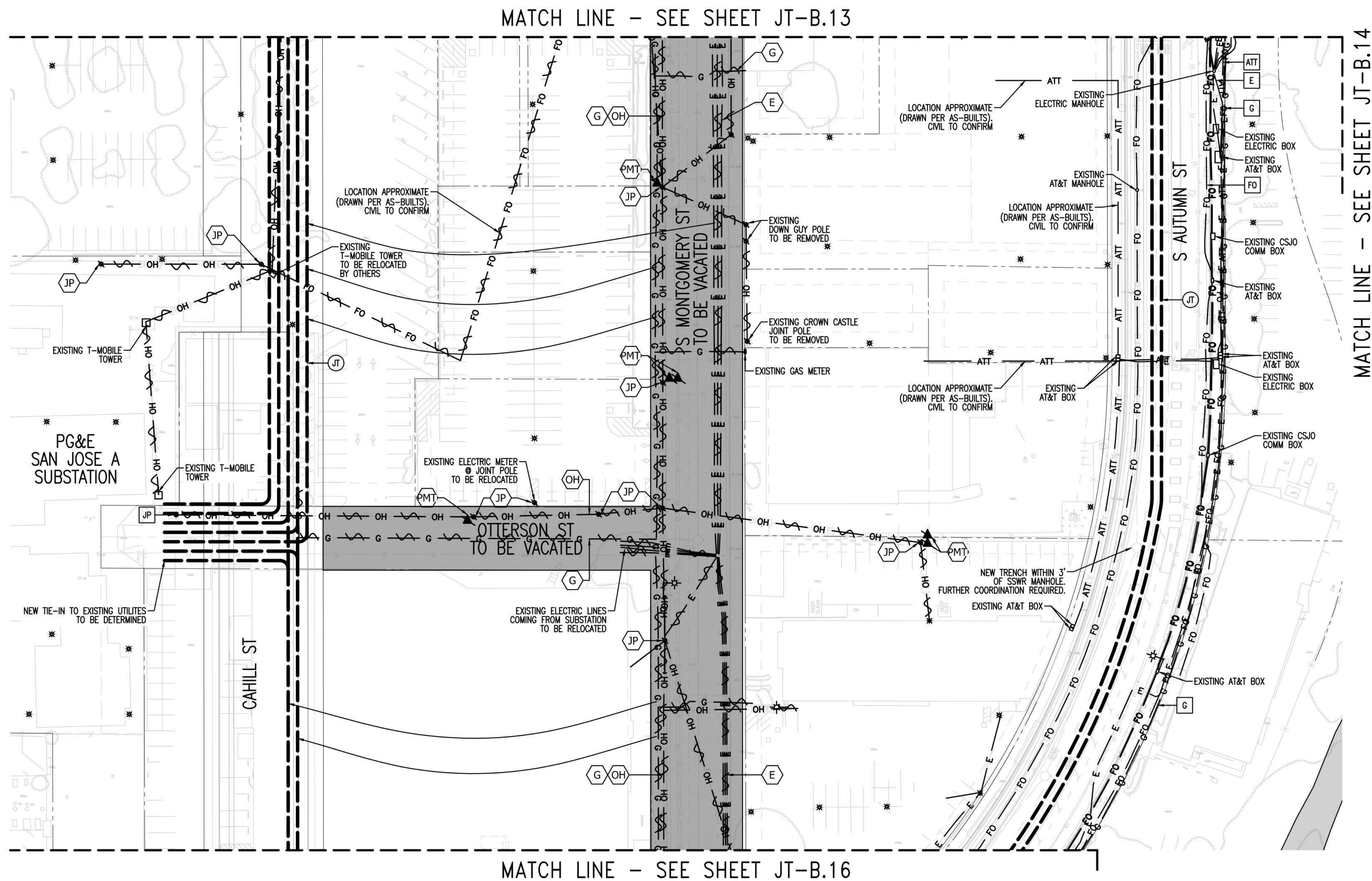
**DOWNTOWN WEST**  
San Jose, California

**SAN JOSE**

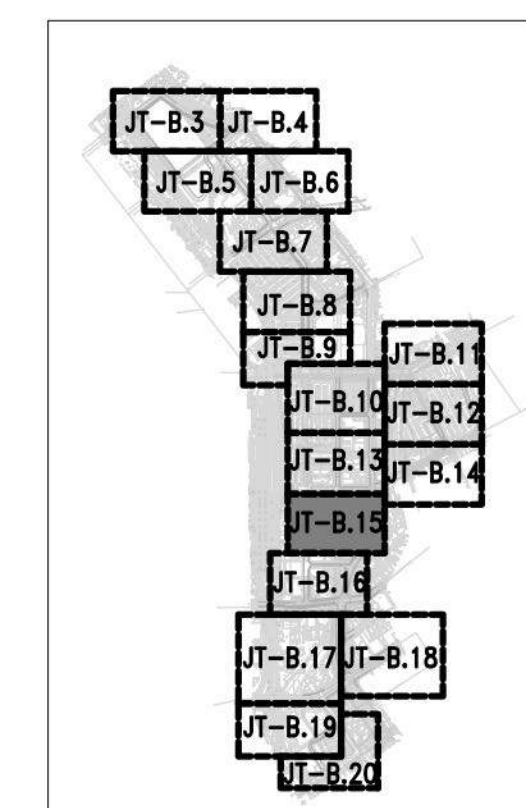
**RADIUS**  
**DESIGN LLC**

UTILITY DESIGN CONSULTANTS & ENGINEERS  
1460 MARIA LANE, SUITE 420, WALNUT CREEK, CA 94596  
Tel: (925) 260-4575

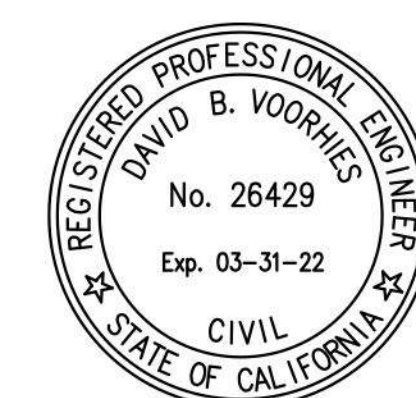
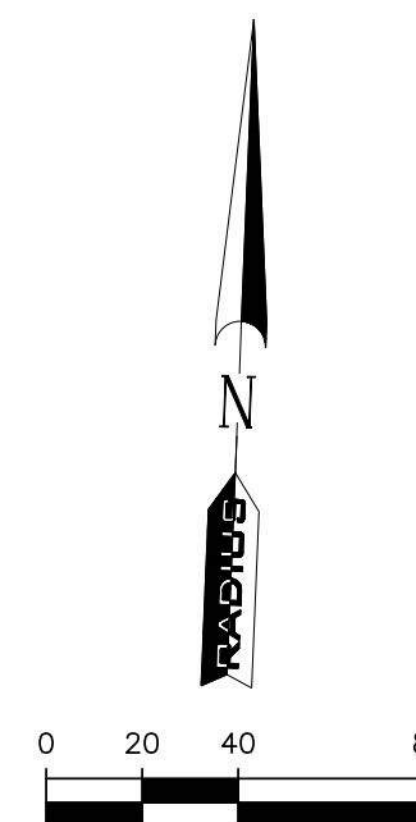
PROJECT NUMBER:	20-1072
SCALE:	1" = 40'
PROJECT MANAGER:	SCOTT HARDESTER
DRAWN BY:	HENRY NGUYEN
CHECKED BY:	CRAIG BURTON
LAST UPDATED:	10-07-2020
DRAWING NUMBER:	JT-B.15
SHEET:	15 OF 20



MATCH LINE - SEE SHEET JT-B.14



SHEET INDEX MAP  
N. T. S.



SHEET INDEX

JT-B.1	JOINT TRENCH TITLE SHEET
JT-B.2	OVERALL
JT-B.3 THRU B.20	JOINT TRENCH INTENT

NOTE TO COMCAST:  
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DRAWING NAME: j:\dropbox\projects\2020\20-1072 diridon\radius work\ms 20-1072\_jt-b1.dwg  
PLOT DATE: Wednesday, September 2, 2020 2:56:34 PM  
PLOT BY: HENRY






















PLEASE CONFIRM  
TIE IN LOCATIONS

NOT FOR CONSTRUCTION


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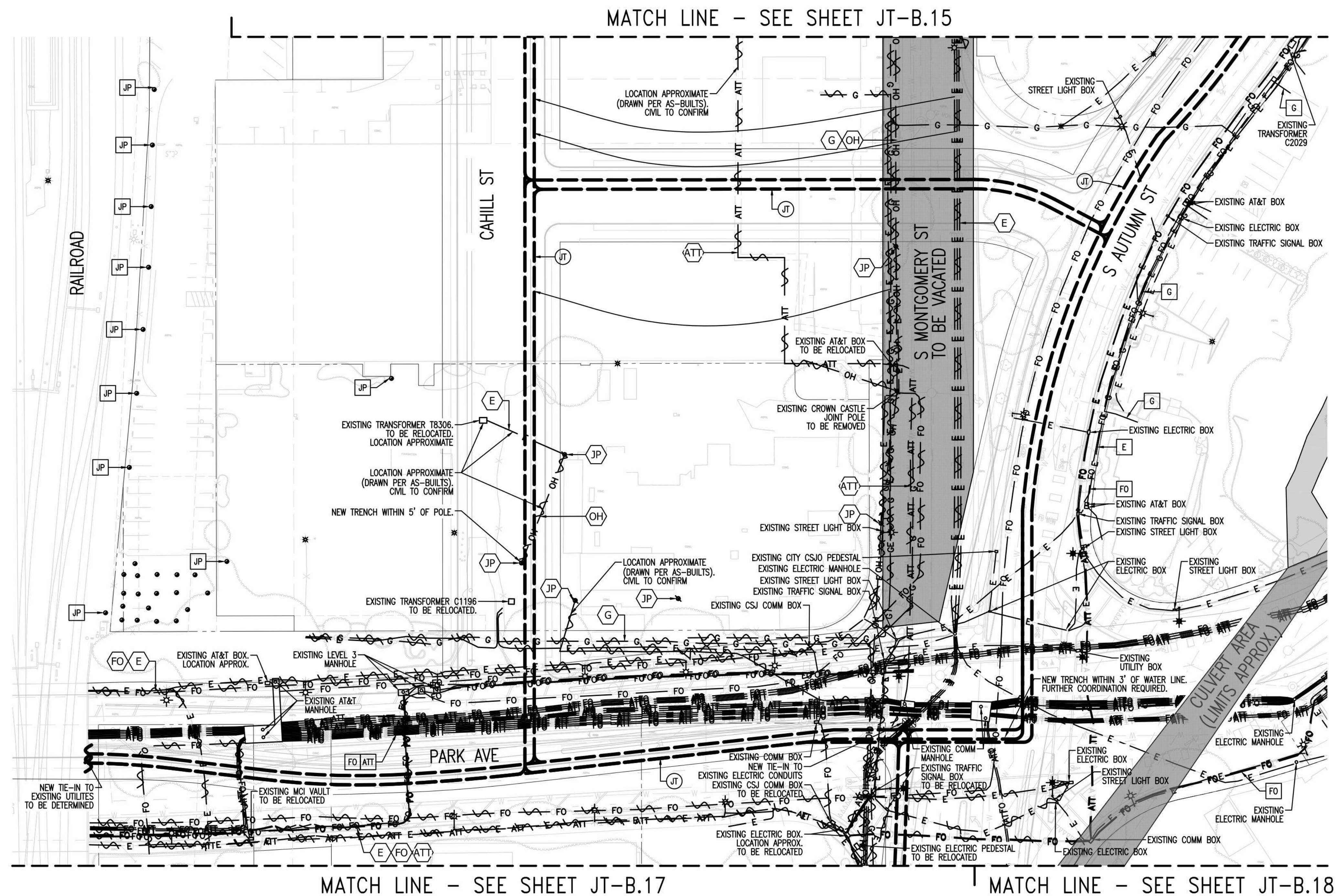
NEW	DESCRIPTION
 <b>JT</b>	<b>JOINT TRENCH</b>
<b>EXISTING</b>	<b>DESCRIPTION</b>
 <b>OH</b>	<b>OVERHEAD LINES</b>
 <b>E</b>	<b>ELECTRIC LINES</b>
 <b>G</b>	<b>GAS LINES</b>
 <b>ATT</b>	<b>AT&amp;T LINES</b>
 <b>C</b>	<b>CATV LINES</b>
 <b>FO</b>	<b>FIBER OPTIC LINES</b>
 <b>JP</b>	<b>JOINT POLE</b>
 <b>PMT</b>	<b>POLE-MOUNTED TRANSFORMER</b>
 <b>DL</b>	<b>DECORATIVE LIGHT</b>
 <b>SL</b>	<b>STREET LIGHT</b>
 <b>TS</b>	<b>TRAFFIC SIGNAL LIGHT</b>
 <b>OH</b>	<b>EXISTING OVERHEAD LINE TO BE REMOVED</b>
 <b>E</b>	<b>EXISTING ELECTRIC LINE TO BE REMOVED/RELOCATED</b>
 <b>G</b>	<b>EXISTING GAS LINE TO BE REMOVED/RELOCATED</b>
 <b>ATT</b>	<b>EXISTING PHONE LINE TO BE REMOVED/RELOCATED</b>
 <b>FO</b>	<b>EXISTING FIBER OPTIC LINE TO BE REMOVED/RELOCATED</b>
 <b>JP</b>	<b>EXISTING JOINT POLE TO BE REMOVED</b>
 <b>PMT</b>	<b>EXISTING POLE-MOUNTED TRANSFORMER TO BE REMOVED</b>

[illegible]

	
JOINT TRENCH INTENT	CALIFORNIA
DOWNTOWN WEST San Jose, California	SAN JOSE


**RADIUS**  
 DESIGN LLC  
 UTILITY DESIGN CONSULTANTS & ENGINEERS  
 1460 MARIA LANE, SUITE 420, WALNUT CREEK, CA 94596  
 Tel (925) 269-4375

PROJECT NUMBER: <b>20-1072</b>	
SCALE:	<b>1" = 40'</b>
PROJECT MANAGER: <b>SCOTT HARDESTER</b>	
DRAWN BY: <b>HENRY NGUYEN</b>	
CHECKED BY: <b>CRAIG BURTON</b>	
DATE UPDATED: <b>10-07-2020</b>	
DRAWING NUMBER: <b>UT-BJ-16</b>	
HEET: <b>16</b>	OF: <b>20</b>



JT-B.3

JT-B.4

JT-B.5

JT-B.6

JT-B.7

JT-B.8

JT-B.9

JT-B.10

JT-B.11

JT-B.12

JT-B.13

JT-B.14

JT-B.15

JT-B.16

JT-B.17

JT-B.18

JT-B.19

JT-B.20

SHEET INDEX MAP  
N. T. S.

SHEET INDEX	
JT-B.1	JOINT TRENCH TITLE SHEET
JT-B.2	OVERALL
JT-B.3 THRU B.20	JOINT TRENCH INTENT

NOTE TO COMCAST:  
PLEASE CONFIRM WHO WILL PROVIDE CONDUIT AND  
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REFER TO PG&E UTILITY BULLETIN TD-7001B-005  
DOCUMENT FOR SMART METER ANTENNA  
CONSTRUCTION REQUIREMENTS.

SUBSTRUCTURE LOCATIONS MUST BE STAKED BY A  
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SEE CONSTRUCTION NOTES ON JOINT TRENCH TITLE  
SHEET (JT-B.1) REGARDING EXISTING CONDITIONS.

**NOTE FOR UNDERGROUND ELECTRIC INSTALLATION:**  
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APPROVED CONDUITS, BENDS, AND FITTINGS, SEE  
PG&E BUILFITIN TD-062288-R006

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PLOT DATE: Wednesday, September 2, 2020 2:56:34 PM  
PLOT BY: HENRY













UTILITIES  
PLEASE CONFIRM  
TIE IN LOCATIONS

–PRELIMINARY–  
NOT FOR CONSTRUCTION

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NOTE TO CONTRACTOR:  
FOR CONTRACTOR'S WORK RESPONSIBILITY,  
REFER TO JOINT TRENCH TITLE SHEET (JT-B.1)

LEGEND:

NEW		DESCRIPTION	
JT	— — — — —	JOINT TRENCH	
EXISTING		DESCRIPTION	
OH	— — — — —	OH	OVERHEAD LINES
E	— — — — —	E	ELECTRIC LINES
G	— — — — —	G	GAS LINES
ATT	— — — — —	ATT	AT&T LINES
C	— — — — —	C	CATV LINES
FO	— — — — —	FO	FIBER OPTIC LINES
JP	●	JP	JOINT POLE
PMT	▲	PMT	POLE-MOUNTED TRANSFORMER
DL	*	DL	DECORATIVE LIGHT
SL	⚡	SL	STREET LIGHT
TS	⚡	TS	TRAFFIC SIGNAL LIGHT
OH	 OH 	OH	EXISTING OVERHEAD LINE TO BE REMOVED
E	 E 	E	EXISTING ELECTRIC LINE TO BE REMOVED/RELOCATED
G	 G 	G	EXISTING GAS LINE TO BE REMOVED/RELOCATED
ATT	 ATT 	ATT	EXISTING PHONE LINE TO BE REMOVED/RELOCATED
FO	 FO 	FO	EXISTING FIBER OPTIC LINE TO BE REMOVED/RELOCATED
JP	●	JP	EXISTING JOINT POLE TO BE REMOVED
PMT	▲	PMT	EXISTING POLE-MOUNTED TRANSFORMER TO BE REMOVED

[illegible]

CAI TEORNI

**JOINT TRENCH INTENT**  
**DOWNTOWN WEST**  
**San Jose, California**

## RESULTS

**RADIUS**  
**DESIGN, LLC**

UTILITY DESIGN CONSULTANTS & ENGINEERS  
MARIA LANE, SUITE 420, WALNUT CREEK, CA 94596

PROJECT NUMBER: <b>20-1072</b>	
SCALE: <b>1" = 40'</b>	
PROJECT MANAGER: <b>SCOTT HARDESTER</b>	
DRAWN BY: <b>HENRY NGUYEN</b>	
CHECKED BY: <b>CRAIG BURTON</b>	
LAST UPDATED: <b>10-07-2020</b>	
DRAWING NUMBER: <b>JT-B.17</b>	
SHEET: <b>17</b>	OF: <b>20</b>

DRAWING NAME: j:\dropbox\projects\2020\20-1072  
PLOT DATE: Wednesday, September 2, 2020 2:56:34 PM  
PLOTTED BY: HENRY

**NOTE FOR UNDERGROUND ELECTRIC INSTALLATION:**  
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SEE CONSTRUCTION NOTES ON JOINT TRENCH TITLE  
SHEET (JT-B.1) REGARDING EXISTING CONDITIONS.

MATCH LINE - SEE SHEET JT-B.16

MATCH LINE - SEE SHEET JT-B.19

----- MATCH LINE - SEE SHEET JT-B.18

JT-B.3 JT-B.4

JT-B.5 JT-B.6

JT-B.7

JT-B.8

JT-B.9 JT-B.11

JT-B.10 JT-B.12

JT-B.13 JT-B.14

JT-B.15

JT-B.16

JT-B.17 JT-B.18

JT-B.19

JT-B.20

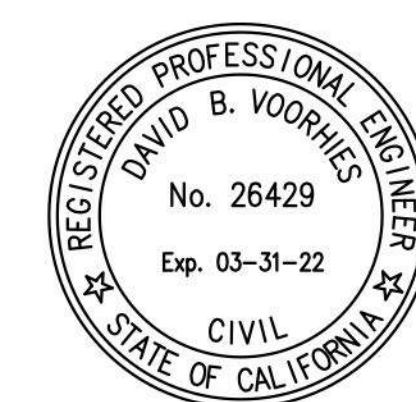
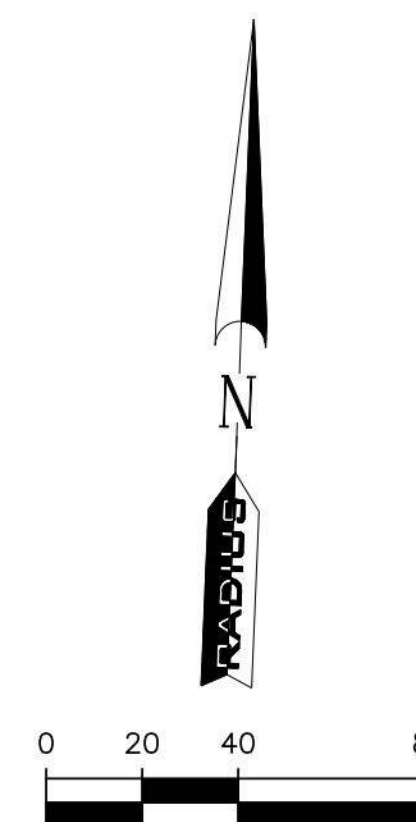
SHEET INDEX MAP

N. T. S.

SHEET INDEX MAP  
N. T. S.

SHEET INDEX

JT-B.1	JOINT TRENCH TITLE SHEET
JT-B.2	OVERALL
JT-B.3	THRU B.20 JOINT TRENCH INTENT

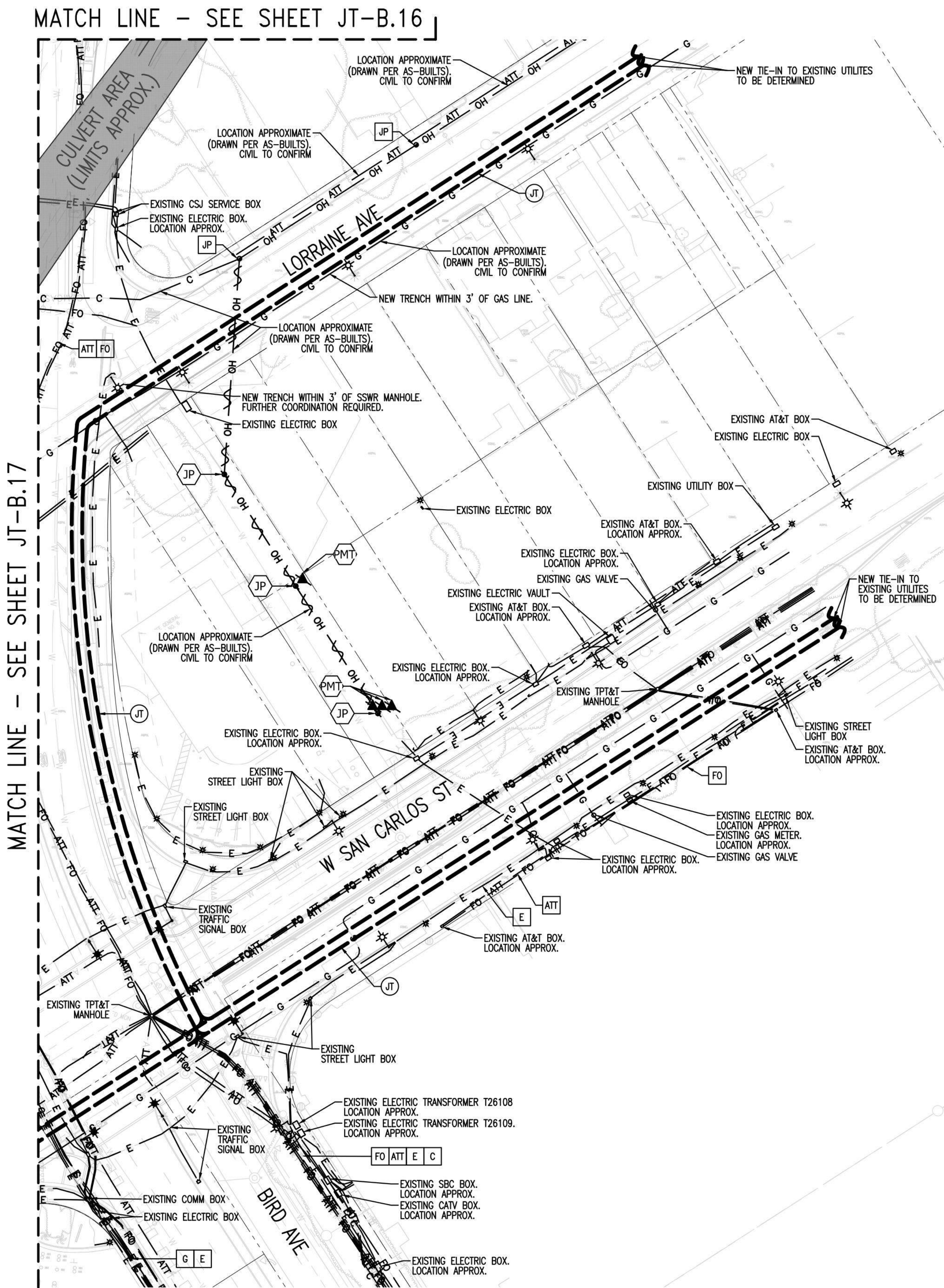




UTILITIES  
PLEASE CONFIRM  
TIE IN LOCATIONS

—PRELIMINARY—  
NOT FOR CONSTRUCTION

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NOTE TO CONTRACTOR:  
FOR CONTRACTOR'S WORK RESPONSIBILITY,  
REFER TO JOINT TRENCH TITLE SHEET (JT-B.1)

LEGEND:	
NEW	DESCRIPTION
—	JOINT TRENCH
EXISTING	DESCRIPTION
OH	OVERHEAD LINES
E	ELECTRIC LINES
G	GAS LINES
ATT	AT&T LINES
C	CATV LINES
FO	FIBER OPTIC LINES
JP	JOINT POLE
▲	POLE-MOUNTED TRANSFORMER
*	DECORATIVE LIGHT
⬤	STREET LIGHT
⬤	TRAFFIC SIGNAL LIGHT
OH	EXISTING OVERHEAD LINE TO BE REMOVED
E	EXISTING ELECTRIC LINE TO BE REMOVED/RELOCATED
G	EXISTING GAS LINE TO BE REMOVED/RELOCATED
ATT	EXISTING PHONE LINE TO BE REMOVED/RELOCATED
FO	EXISTING FIBER OPTIC LINE TO BE REMOVED/RELOCATED
JP	EXISTING JOINT POLE TO BE REMOVED
▲	EXISTING POLE-MOUNTED TRANSFORMER TO BE REMOVED

DATE:	
REVISION:	
DELTA NO:	



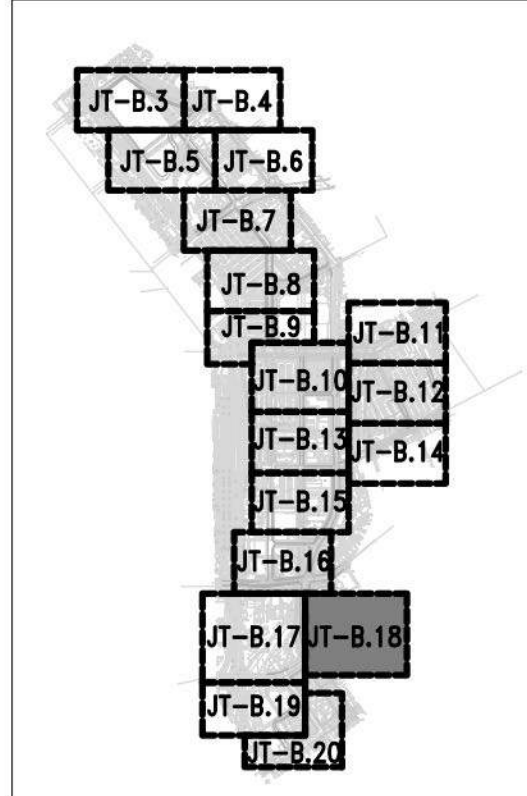
CALIFORNIA

JOINT TRENCH INTENT  
DOWNTOWN WEST  
San Jose, California

SAN JOSE

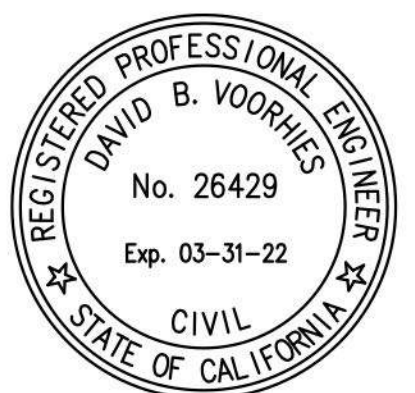
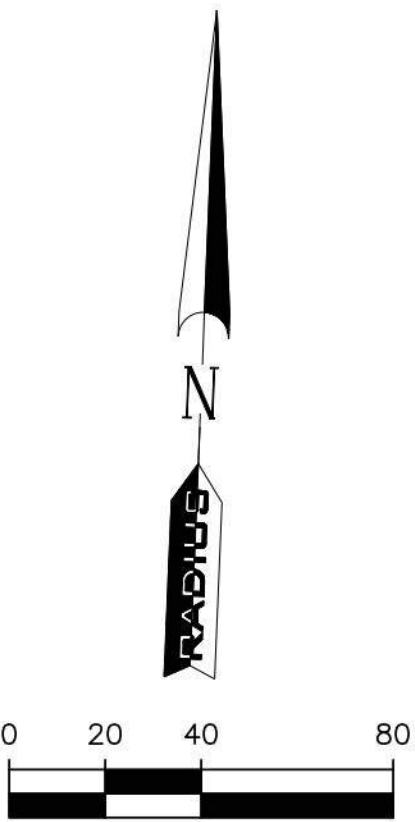
**RADIUS DESIGN**  
UTILITY DESIGN CONSULTANTS & ENGINEERS  
1480 MARIA LANE, SUITE 420, WALNUT CREEK, CA 94596  
Tel (925) 269-4575

PROJECT NUMBER:	20-1072
SCALE:	1" = 40'
PROJECT MANAGER:	SCOTT HARDESTER
DRAWN BY:	HENRY NGUYEN
CHECKED BY:	CRAIG BURTON
LAST UPDATED:	10-07-2020
DRAWING NUMBER:	JT-B.18
SHEET:	18 OF 20



SHEET INDEX MAP  
N. T. S.

SHEET INDEX	
JT-B.1	JOINT TRENCH TITLE SHEET
JT-B.2	OVERALL
JT-B.3 THRU B.20	JOINT TRENCH INTENT



NOTE TO COMCAST:  
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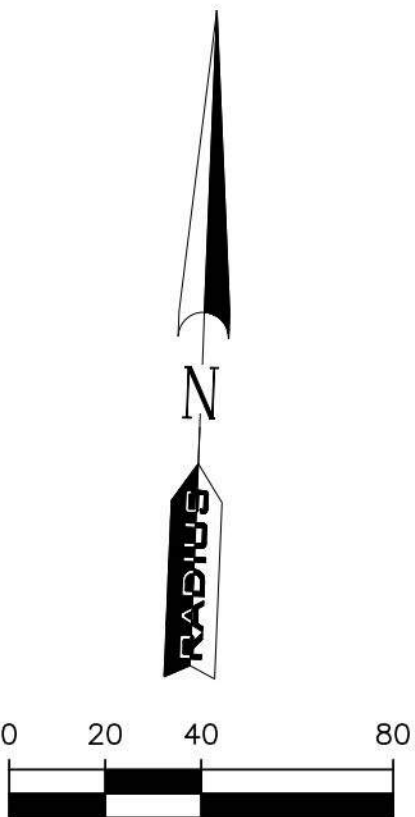
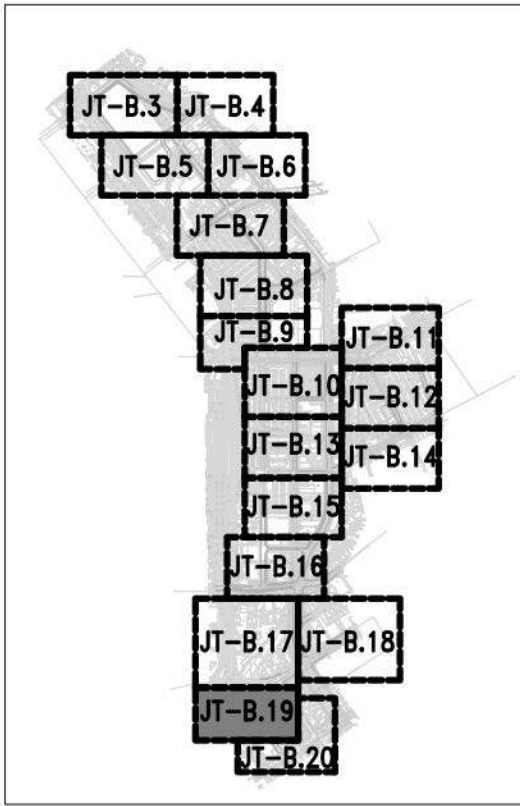
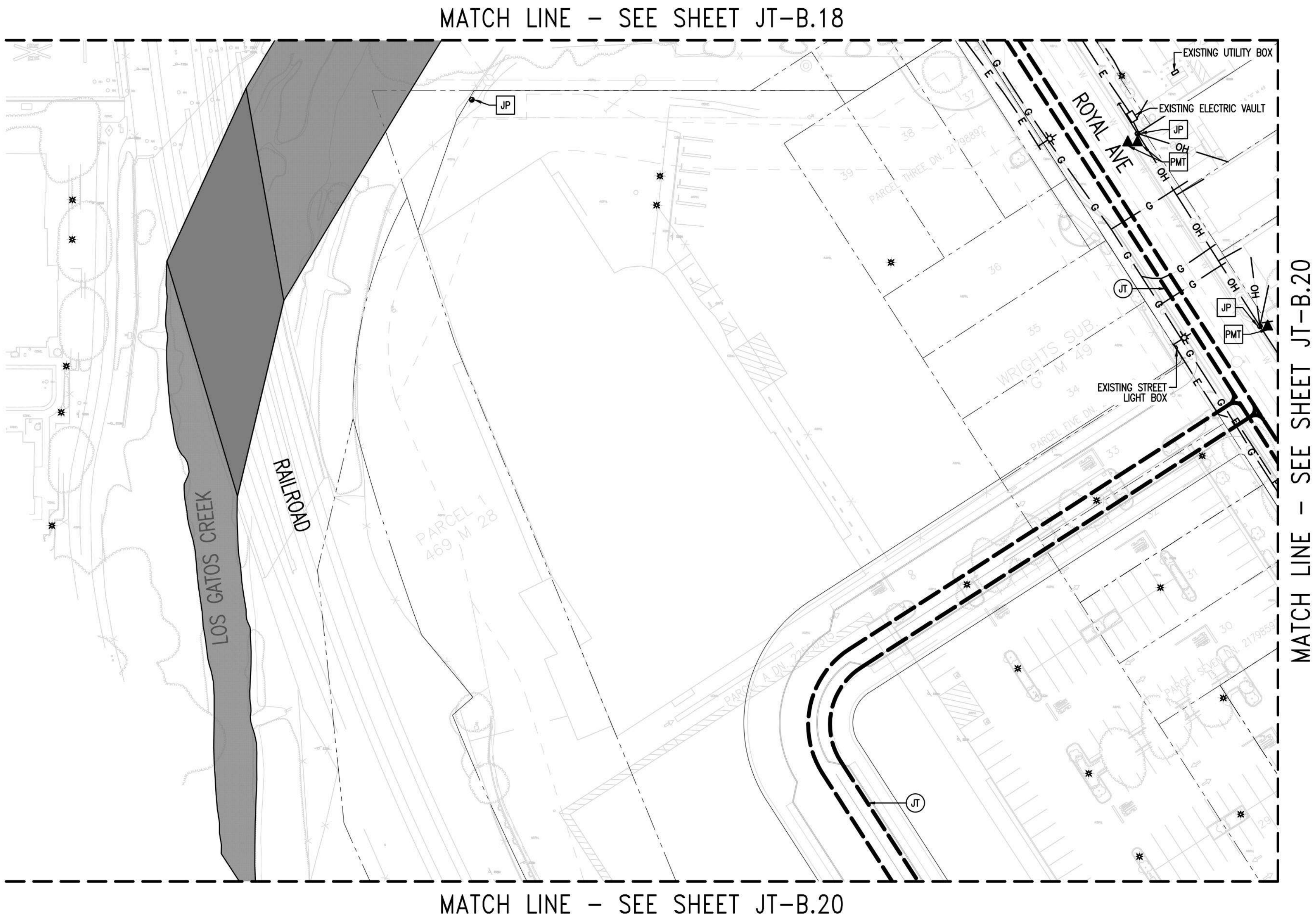
UTILITIES  
PLEASE CONFIRM  
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—PRELIMINARY—  
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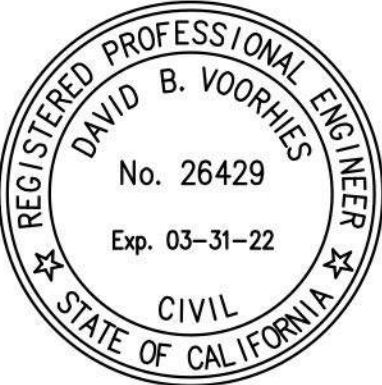
NOTE TO CONTRACTOR:  
FOR CONTRACTOR'S WORK RESPONSIBILITY,  
REFER TO JOINT TRENCH TITLE SHEET (JT-B.1)

LEGEND:	
NEW	DESCRIPTION
—	JOINT TRENCH
EXISTING	DESCRIPTION
OH	OVERHEAD LINES
E	ELECTRIC LINES
G	GAS LINES
ATT	AT&T LINES
C	CATV LINES
FO	FIBER OPTIC LINES
●	JOINT POLE
▲	POLE-MOUNTED TRANSFORMER
*	DECORATIVE LIGHT
+	STREET LIGHT
+	TRAFFIC SIGNAL LIGHT
OH	EXISTING OVERHEAD LINE TO BE REMOVED
E	EXISTING ELECTRIC LINE TO BE REMOVED/RELOCATED
G	EXISTING GAS LINE TO BE REMOVED/RELOCATED
ATT	EXISTING PHONE LINE TO BE REMOVED/RELOCATED
FO	EXISTING FIBER OPTIC LINE TO BE REMOVED/RELOCATED
●	EXISTING JOINT POLE TO BE REMOVED
▲	EXISTING POLE-MOUNTED TRANSFORMER TO BE REMOVED



SHEET INDEX MAP  
N. T. S.

SHEET INDEX	
JT-B.1	JOINT TRENCH TITLE SHEET
JT-B.2	OVERALL
JT-B.3 THRU B.20	JOINT TRENCH INTENT



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PG&E BULLETIN TD-062288-8006.

DATE:	
REVISION:	
DELTA NO:	

CALIFORNIA  
REGISTERED PROFESSIONAL ENGINEER

JOINT TRENCH INTENT  
DOWNTOWN WEST  
San Jose, California

SAN JOSE

**RADIUS DESIGN**  
UTILITY DESIGN CONSULTANTS & ENGINEERS  
1460 MARIA LANE, SUITE 420, WALNUT CREEK, CA 94596  
Tel (925) 269-4575

PROJECT NUMBER:  
20-1072  
SCALE:  
1" = 40'  
PROJECT MANAGER:  
SCOTT HARDESTER  
DRAWN BY:  
HENRY NGUYEN  
CHECKED BY:  
CRAIG BURTON  
LAST UPDATED:  
10-07-2020  
DRAWING NUMBER:  
**JT-B.19**  
SHEET: 19 OF: 20



PLEASE CONFIRM  
TIE IN LOCATIONS

NOT FOR CONSTRUCTION

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FOR CONTRACTOR'S WORK RESPONSIBILITY,  
REFER TO JOINT TRENCH TITLE SHEET (JT-B.1)

NEW	DESCRIPTION	REVISION
<div> <div> </div> <div> <div>JOINT</div> <div>TRENCH</div> </div> </div>		
EXISTING	DESCRIPTION	
OH	OVERHEAD LINES	
E	ELECTRIC LINES	
G	GAS LINES	
ATT	AT&T LINES	
C	CATV LINES	
FO	FIBER OPTIC LINES	
JP	JOINT POLE	
PMT	POLE-MOUNTED TRANSFORMER	
DL	DECORATIVE LIGHT	
SL	STREET LIGHT	
TS	TRAFFIC SIGNAL LIGHT	
OH	EXISTING OVERHEAD LINE TO BE REMOVED	
E	EXISTING ELECTRIC LINE TO BE REMOVED/RELOCATED	
G	EXISTING GAS LINE TO BE REMOVED/RELOCATED	
ATT	EXISTING PHONE LINE TO BE REMOVED/RELOCATED	
FO	EXISTING FIBER OPTIC LINE TO BE REMOVED/RELOCATED	
JP	EXISTING JOINT POLE TO BE REMOVED	
PMT	EXISTING POLE-MOUNTED TRANSFORMER TO BE REMOVED	

[illegible]

CALIFORNIA

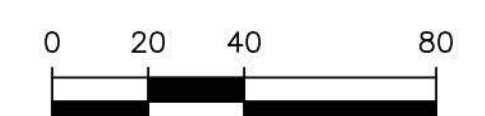
**JOINT TRENCH INTENT**

**DOWNTOWN WEST**  
San Jose, California

SAN JOSE

**RADIUS**  
**DESIGN LLC**  
UTILITY DESIGN CONSULTANTS & ENGINEERS  
1460 MARIA LANE, SUITE 420, WALNUT CREEK, CA 94596  
Tel (925) 268-4575

PROJECT NUMBER:	20-1072
SCALE:	1" = 40'
PROJECT MANAGER:	SCOTT HARDESTER
DRAWN BY:	HENRY NGUYEN
CHECKED BY:	CRAIG BURTON
LAST UPDATED:	10-07-2020
DRAWING NUMBER:	UT-B.20
FEET:	20 OF: 20



SHEET INDEX	
JT-B.1	JOINT TRENCH TITLE SHEET
JT-B.2	OVERALL
JT-B.3 THRU B.20	JOINT TRENCH INTENT

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**DRAWING NAME:** j:\dropbox\projects\2020\20-1072 dirdon\radius work\ms 20-1072\_jt-b1.dwg  
**PLOT DATE:** Wednesday, September 2, 2020 2:56:34 PM  
**PLOTTED BY:** HENRY